



April 3, 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: Closure Request  
Mesa Verde Bone Springs 0045H  
Incident Number nAPP2231459478  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Mesa Verde Bone Springs 0045H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a crude oil release at the Site. Based on field observations, excavation activities, and soil sample laboratory analytical results, Oxy is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2231459478.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit N, Section 16, Township 24 South, Range 32 East, in Lea County, New Mexico (32.2120103°, -103.683758°) and is associated with oil and gas exploration and production operations on State Land managed by the Bureau of Land Management (BLM).

On November 3, 2022, a shaker screen clogged up during drilling activities, resulting in the release of approximately 60 barrels (bbls) of crude oil onto the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 40 bbls of crude oil were recovered. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 16, 2022. The release was assigned Incident Number nAPP2231459478.

Since the release remained on the active well pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release. The release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned and the well pad is reclaimed. The Reclamation Plan for this release will default to the BLM-approved Reclamation Plan for the well pad per 19.2.100.67 of the New Mexico Administrative Code (NMAC).

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the NMAC. Results from the characterization

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are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on **Figure 4**.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest soil boring data. On December 9, 2024, Ensolum installed a soil boring (SB-1) down to a depth of 105 feet bgs to determine depth to groundwater for Oxy at the site. Groundwater was not encountered during the advancement of SB-1. The associated well records are included in **Appendix A**.

The closest continuously flowing or significant watercourse to the Site is located approximately 34,485 feet east-northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on **Figure 4**.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH) Total (GRO+DRO): 1,000 mg/kg
- TPH Total (GRO+DRO+MRO): 2,500 mg/kg
- Chloride: 20,000 mg/kg

## SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 2, 2024, Ensolum personnel were on Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Assessment soil samples SS01 through SS10 were collected within the release area at an approximate depth of 0.5 feet bgs to assess for the presence or absence of impacted soil. On August 12, 2024, assessment soil samples SS11 through SS15 were collected around the release area at a depth of 0.5 feet bgs to confirm the lateral extent of the release.

The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visit and a photographic log is included as **Appendix B**.

All soil samples were placed into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and placed on ice. The soil samples were transported under chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) following EPA Method 8015M; and chloride following EPA Method SM4500 Cl-B.

Laboratory analytical results for assessment soil samples SS08 and SS10, collected from within the release extent, indicated TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS11 through SS15, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. The release extent and assessment soil sample locations are

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presented on **Figure 3**. Laboratory analytical results are summarized in **Table 1** and the complete laboratory analytical reports are included as **Appendix C**.

## EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

From August 12, 2024 to August 14, 2024, Ensolum personnel were on Site to oversee excavation activities based on laboratory analytical results for assessment soil samples SS08 and SS10. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavations on site were completed to a depth of 2 feet bgs. Photographic documentation of the excavation activities is included in **Appendix B**.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavations or from the release extent, and every 200 square feet from the sidewalls of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS11 were collected from the floor of the excavations at a depth of 2 feet bgs and composite soil samples SW01 through SW04 were collected from the sidewalls of the excavations at a depth of 0 feet bgs to 2 feet bgs. Additionally, composite soil samples SS16 through SS39 were collected from within the release extent at a depth of 0.5 feet bgs. The excavation extent and excavation soil sample locations are presented on **Figure 3**. The soil samples were handled and analyzed following the same procedures as described above.

On February 3, 2025, Ensolum personnel returned to the site to oversee the removal of additional soil based on laboratory analytical results for composite soil samples as well as field screen results. Composite soil samples SS01, SS03, SS21, SS31, SS34 and SS38 were collected from the floor of the excavations at a depth of 1 foot bgs and composite soil samples SW05 through SW09 were collected from the sidewalls of the excavations at a depth of 0 feet bgs to 1 foot bgs. The excavation extent and excavation soil sample locations are presented on **Figure 3**. Laboratory analytical results are summarized in **Table 1** and laboratory analytical reports are included as **Appendix C**.

The total excavation area measured approximately 3,440 square feet. A total of 210 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lealand Landfill in Carlsbad, New Mexico. After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from Lea Land Caliche Pit and re-contoured to match pre-existing pad conditions. The Backfill Site Map is presented as **Figure 5**. Laboratory analytical results for the backfill material are summarized on Table 2 and complete laboratory analytical reports are included in **Appendix C**.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the November 3, 2022 release. Laboratory analytical results for the soil samples collected from the release extent as well as the final excavation extent, indicated benzene, BTEX, TPH and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. Oxy has completed backfill of the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The release occurred on-pad, therefore, reseeded is not necessary at this time. Once the area is no longer in use, the Reclamation Plan for this release will default to the BLM-approved Reclamation Plan.

Oxy believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, Oxy respectfully requests closure for Incident Number nAPP2231459478. Any NMOCD correspondence is included in **Appendix D**.

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If you have any questions or comments, please contact Ms. Georgiana McSwane at (254) 459-2338 or gmcswane@ensolum.com.

Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink that reads "Georgiana McSwane".

Georgiana McSwane  
Project Manager

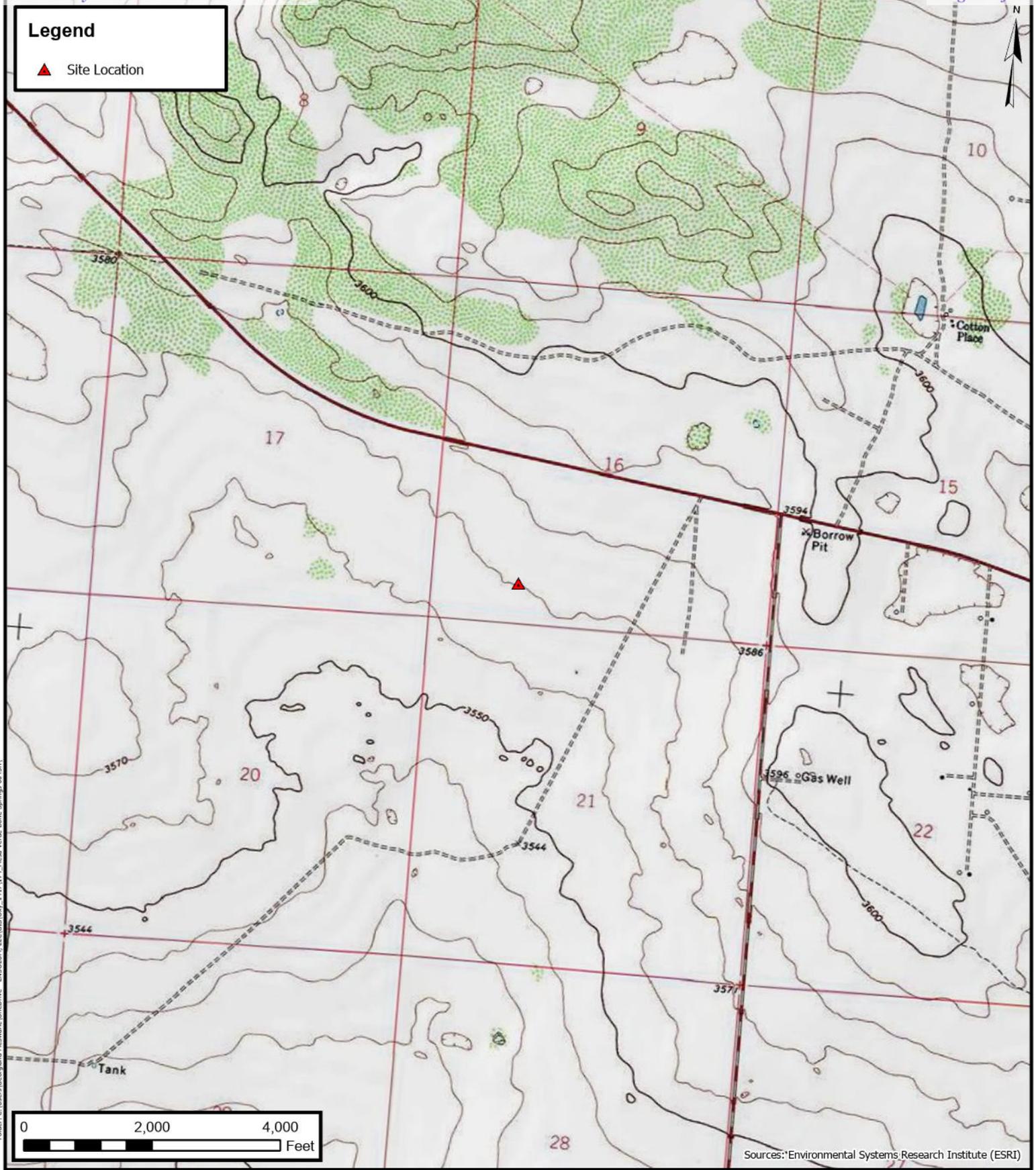
A handwritten signature in black ink that reads "Beaux Jennings".

Beaux Jennings  
Associate Principal

cc: Wade Dittrich, Oxy USA Inc.  
Bureau of Land Management

Appendices:

- Figure 1 Topographic Map
- Figure 2 Site Vicinity Map
- Figure 3 Site Map
- Figure 4 Closure Criteria Map
- Figure 5 Backfill Site Map
- Table 1 Soil Sample Analytical Results
- Table 2 Backfill Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix D NMOCD Correspondence



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**ENSOLUM**  
 Environmental, Engineering and  
 Hydrogeologic Consultants

**Topographic Map**  
 Oxy USA Inc.  
 Mesa Verde Bone Springs 0045H  
 32.2120103° N, 103.683758° W  
 Lea County, New Mexico

PROJECT NUMBER: 03B1417174

**FIGURE**  
 1



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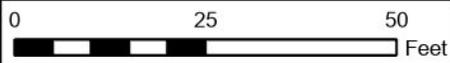
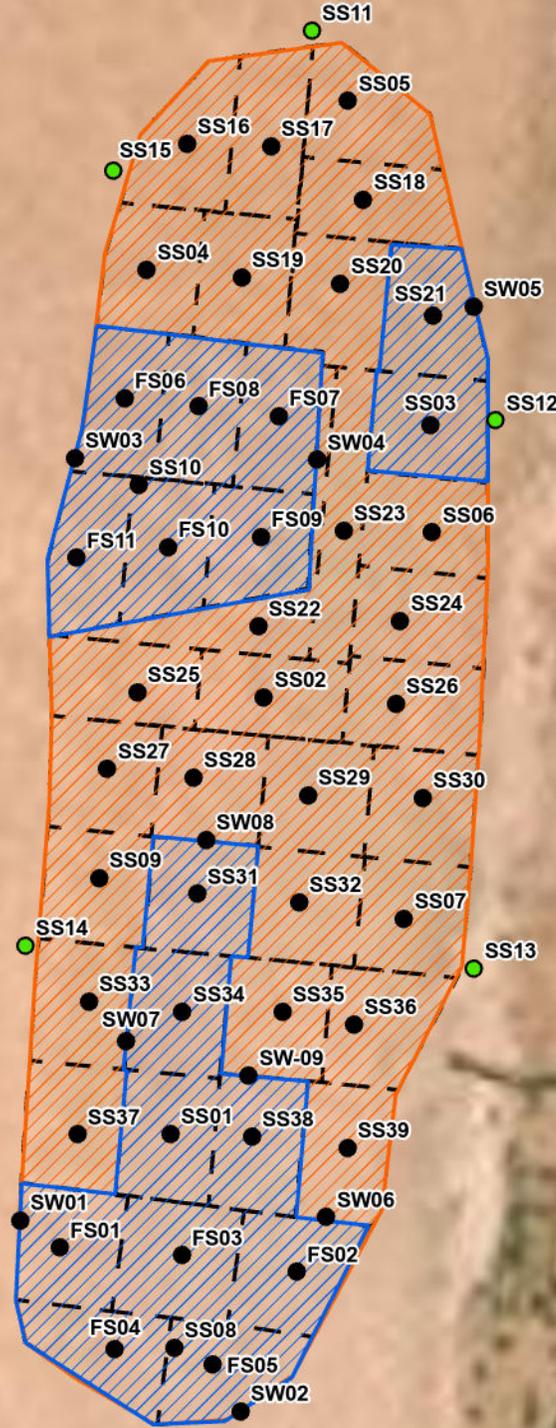
**Site Vicinity Map**  
 Oxy USA Inc.  
 Mesa Verde Bone Springs 0045H  
 32.2120103° N, 103.683758° W  
 Lea County, New Mexico

PROJECT NUMBER: 03B1417174

**FIGURE**  
**2**

### Legend

- Delineation Sample Location
- Confirmation Soil Sample Location
- Excavation Extent
- Release Extent
- Composite Soil Sample
- Grid Boundary



Sources: Environmental Systems Research Institute (ESRI)



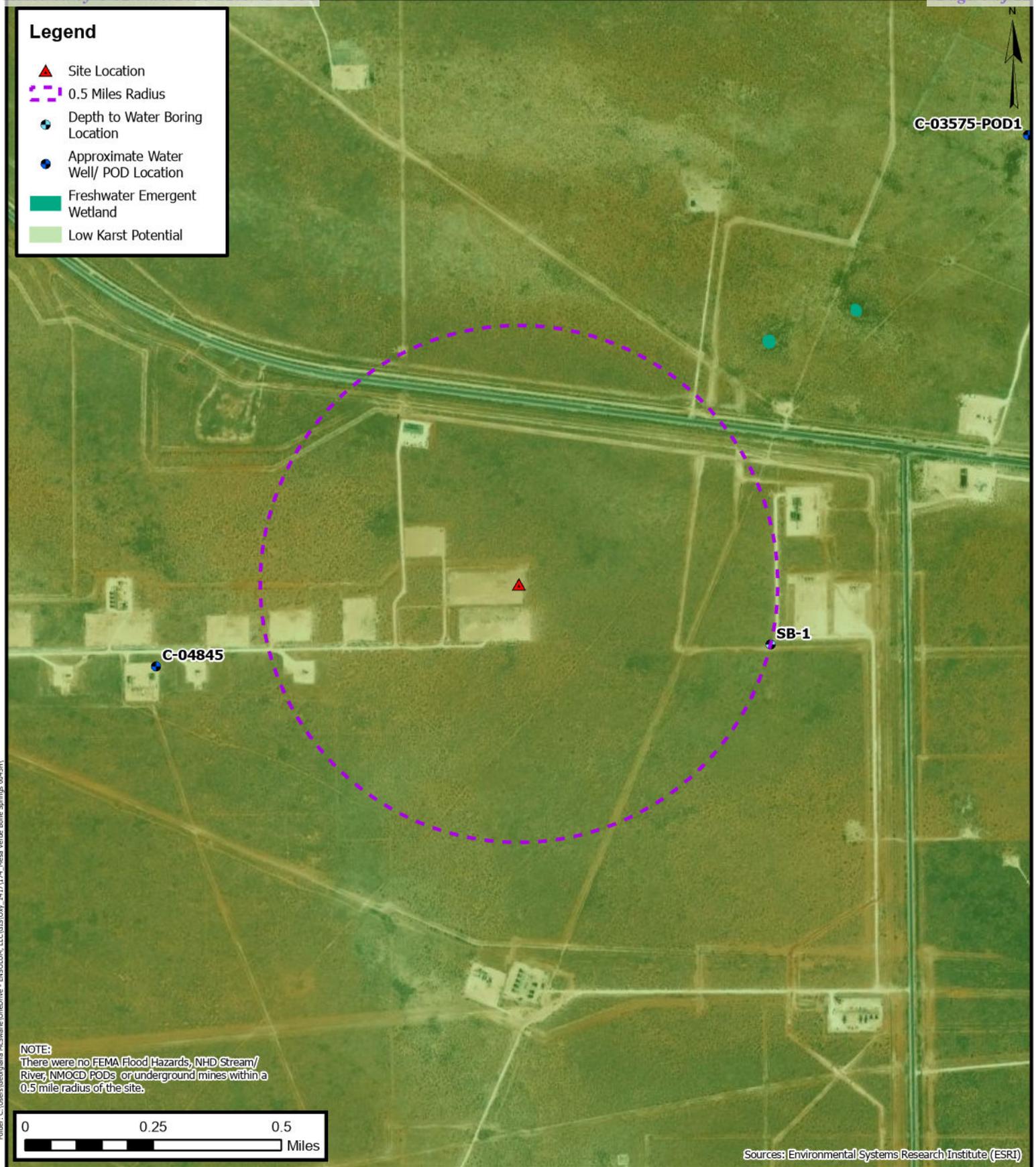
## Site Map

Oxy USA Inc.  
 Mesa Verde Bone Springs 0045H  
 32.2120103° N, 103.683758° W  
 Lea County, New Mexico

PROJECT NUMBER: 03B1417174

# FIGURE

# 3



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### Closure Criteria Map

Oxy USA Inc.  
Mesa Verde Bone Springs 0045H  
32.2120103° N, 103.683758° W  
Lea County, New Mexico

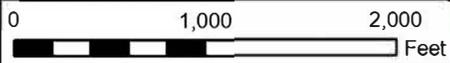
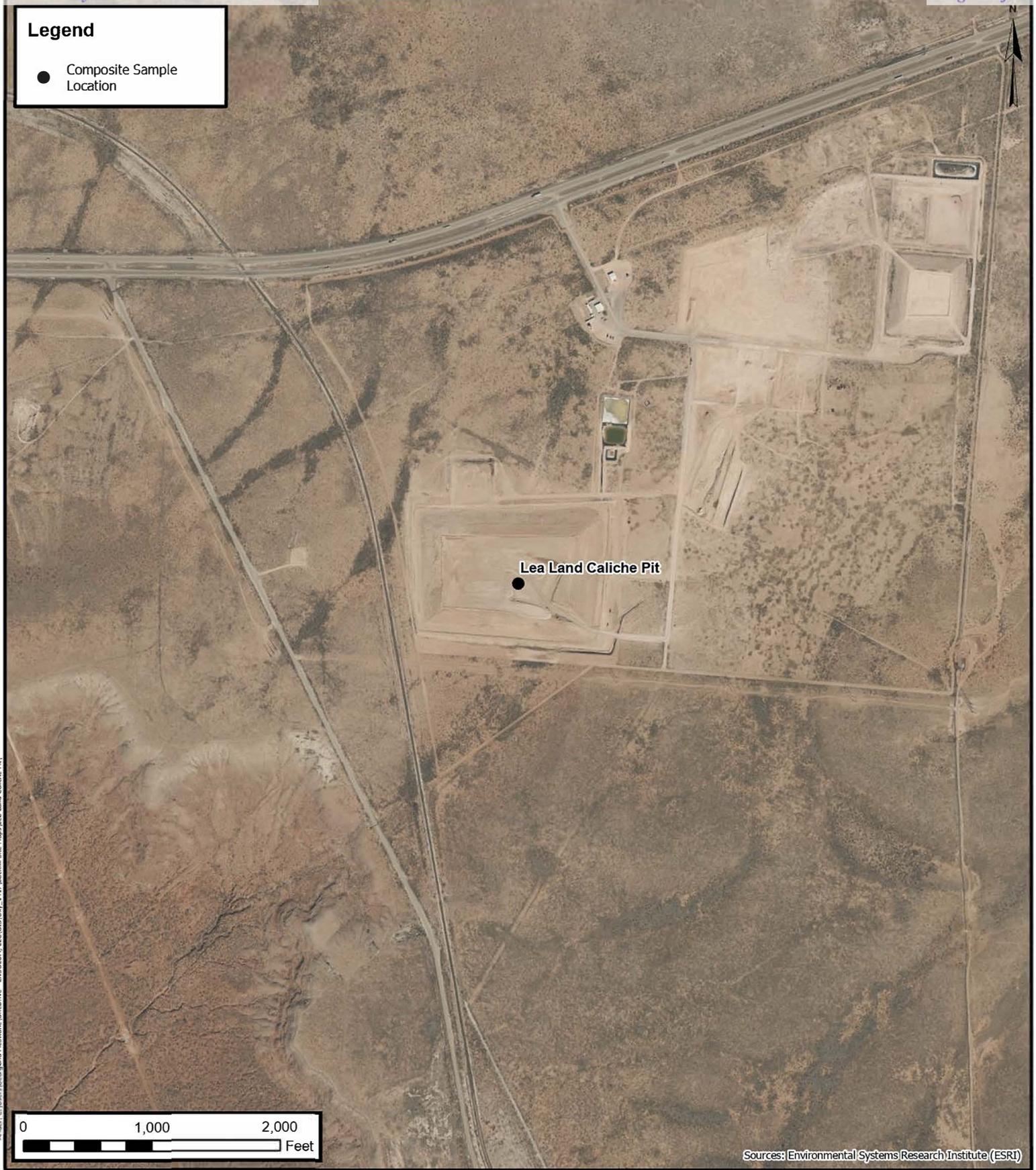
PROJECT NUMBER: 03B1417174

FIGURE

4

**Legend**

- Composite Sample Location



Sources: Environmental Systems Research Institute (ESRI)



# Backfill Site Map

Lea Land Caliche Pit  
 32.5232397° N, 103.7845410° W  
 Lea County, New Mexico

**FIGURE**  
**5**



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mesa Verde Bone Springs 0045H  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolum Project No. 03B1417174

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 C <sub>6</sub> -C <sub>12</sub> (mg/kg)	TPH DRO >C <sub>12</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH Total (GRO+DRO) C <sub>6</sub> -C <sub>28</sub> (mg/kg)	TPH Total (GRO+DRO+MRO) C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Sample Analytical Results													
SS11	08/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS12	08/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS13	08/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14	08/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS15	08/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Confirmation Soil Sample Analytical Results													
SS01	08/02/2024	0.5	0.104	0.301	<0.050	<0.150	0.512	<10.0	263	26.7	263	290	96.0
	02/03/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SS02	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	97.3	27.0	97.3	124	160
	02/03/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS03	08/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	817	52.7	817	870	1,470
	02/03/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	05/02/2024	0.5	0.098	0.184	<0.050	<0.150	<0.300	<10.0	692	39.1	692	731	80.0
	02/03/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.6	<10.0	14.6	14.6	64.0
SS05	05/02/2024	0.5	0.127	0.259	<0.050	<0.150	0.386	<10.0	318	<10.0	318	318	80.0
	02/03/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	83.5	<10.0	83.5	83.5	240
SS06	05/02/2024	0.5	0.068	0.107	<0.050	<0.150	<0.300	<10.0	157	<10.0	157	157	192
	02/03/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	69.1	<10.0	69.1	69.1	256
SS07	05/02/2024	0.5	0.124	0.378	<0.050	<0.150	0.636	<10.0	<10.0	<10.0	<10.0	<10.0	128
	02/03/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.2	<10.0	16.2	16.2	528
SS08	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	5,440	71.8	5,440	5,512	336
	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	153	15.9	153	169	528
SS09	02/03/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.0	<10.0	13.0	13.0	304
	05/02/2024	0.5	0.109	0.320	<0.050	0.166	0.595	<10.0	7,180	53.6	7,180	7,204	96.0
SS16	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	94.6	<10.0	94.6	94.6	32.0
SS17	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	288	54.0	288	342	16.0
SS18	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	235	19.7	235	255	80.0
SS19	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	957	134	957	1,091	80.0
SS20	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	173	27.2	173	200	80.0
SS21	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,030	70.8	1,030	1,101	32.0
	02/03/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS22	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	141	25.8	141	167	128
SS23	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.3	<10.0	31.3	31.3	96
SS24	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	446	73.6	446	520	80.0
SS25	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	144	12.3	144	156	128
SS26	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.9	15.5	56.9	72	256
SS27	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	121	<10.0	121	121	128
SS28	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	157	21.2	157	178	96.0
SS29	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	474	51.6	474	526	48.0
SS30	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	384	119	384	503	192
SS31	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,850	136	1,850	1,986	3,040
	02/03/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS32	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	180	24.7	180	205	64.0
SS33	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	439	89.5	439	529	3,000
SS34	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,360	295	3,360	3,655	1,640
	02/03/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS35	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	406	50.5	406	457	1,420
SS36	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	243	18.9	243	262	48.0
SS37	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	151	14.4	151	165	560
SS38	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,320	111	1,320	1,431	192
	02/03/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS39	08/14/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	73.6	<10.0	73.6	73.6	160
FS01	08/13/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	08/13/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS03	08/13/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS04	08/13/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS05	08/13/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS06	08/12/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS07	08/12/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS08	08/12/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS09	08/12/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS10	08/12/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS11	08/12/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mesa Verde Bone Springs 0045H  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolum Project No. 03B1417174

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 C <sub>6</sub> -C <sub>12</sub> (mg/kg)	TPH DRO >C <sub>12</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH Total (GRO+DRO) C <sub>6</sub> -C <sub>28</sub> (mg/kg)	TPH Total (GRO+DRO+MRO) C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
<b>Excavation Sidewall Soil Sample Analytical Results</b>													
SW01	08/13/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW02	08/13/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW03	08/13/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04	08/13/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW05	02/03/2025	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW06	02/03/2025	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW07	02/03/2025	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW08	02/03/2025	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW09	02/03/2025	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.6	<10.0	11.6	11.6	192

Concentrations in bold and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release

Additional Excavation and/or Re-Sample

- bgs: below ground surface
- mg/kg: milligrams per kilogram
- NE: Not Established
- mg/kg: milligrams per kilogram
- 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**  
**BACKFILL SOIL SAMPLE ANALYTICAL RESULTS**  
 Lea Land Caliche Pit  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolum Project No. NA

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)</b>			10	NE	NE	NE	50	NE	NE	NE	100	600
<b>Composite Background Soil Sample Analytical Result</b>												
Lea Land Caliche Pit	09/13/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.6	<10.0	98.6	560

bgs: below ground surface  
 mg/kg: milligrams per kilogram  
 NA: Not Applicable  
 NE: Not Established  
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes  
 GRO: Gasoline Range Organics  
 DRO: Diesel Range Organics  
 MRO: Motor Oil/Lube Oil Range Organics  
 TPH: Total Petroleum Hydrocarbon



## APPENDIX A

### Reference Well Records



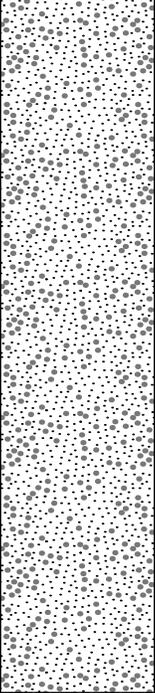
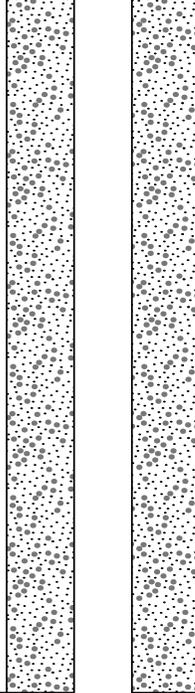
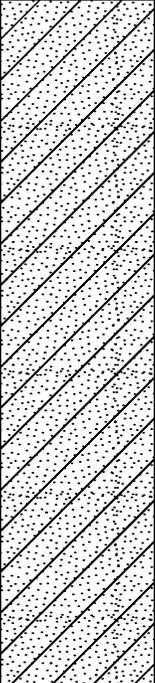
# ENSOLUM

Environmental, Engineering and Hydrogeologic Consultants

## SOIL BORING LOG SB-1

<b>PROJECT NUMBER</b> 03B1417174	<b>DRILLING DATE</b> 12/09/2024	<b>COORDINATES</b> 32.210174, -103.675458
<b>PROJECT NAME</b> Mesa Verde Bone Springs 0045H	<b>TOTAL DEPTH</b> 105'	<b>SURFACE ELEVATION</b> 3574'
<b>CLIENT</b> Oxy USA, Inc.	<b>DIAMETER</b> 7 7/8"	<b>DRILLED BY</b> West Texas Water Well Services
<b>ADDRESS</b> Lea County, New Mexico	<b>CASING</b> 2'	<b>DRILLER</b> Caleb Gregory
	<b>SCREEN</b> 10'	

**COMMENTS** No water found, and a two-inch casing was installed with a 10' of screening at the bottom. **LOGGED BY** Nicolas Christakos  
**CHECKED BY**

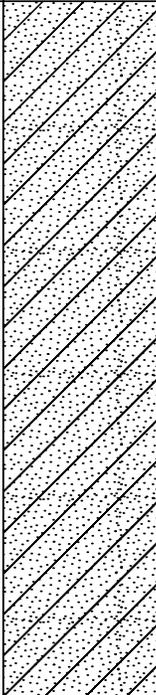
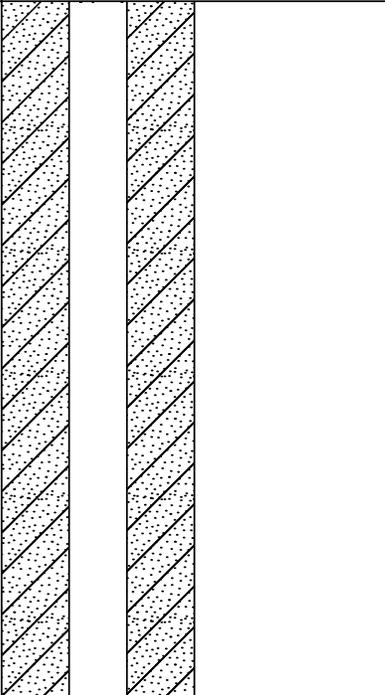
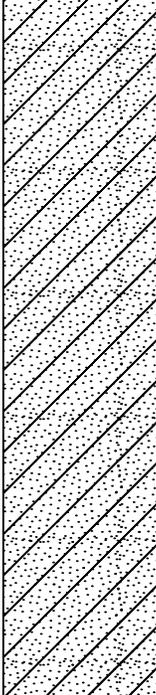
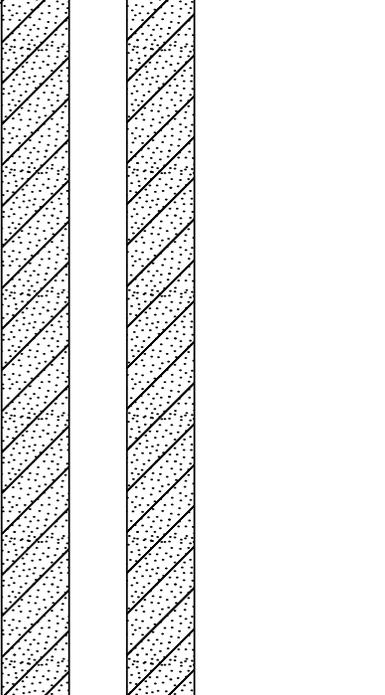
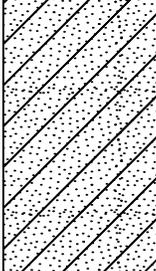
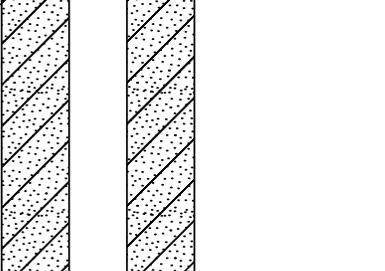
Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
10		DRY	Gravelly Sand, Pale/White Brown, Dry, Non-cohesive, Non-plastic, Non-uniform, Some Gravel, Fine, No Hydrocarbon Odor	 <p style="text-align: center;">SB-1</p>
		DRY	Clayey Sand, Light Brown, Very Fine to Fine, Non-cohesive, Non-plastic, Few Gravel, Non-uniform, Dry, No Hydrocarbon Odor	

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

# ENSOLUM

Environmental, Engineering and  
Hydrogeologic Consultants

## SOIL BORING LOG SB-1

Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
20		DRY	Sandy Clay, Reddish-Brown, Non-cohesive, Non-plastic, Very-Fine to Fine, Unoxidized, Dry, No Hydrocarbon Odor	
30		DRY	Sandy Clay, Reddish-Brown, Non-cohesive, Non-plastic, Very-Fine to Fine, Unoxidized, Dry, No Hydrocarbon Odor	
40		DRY	Sandy Clay, Reddish-Brown, Non-cohesive, Non-plastic, Very-Fine to Fine, Unoxidized, Dry, No Hydrocarbon Odor	

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

# ENSOLUM

Environmental, Engineering and Hydrogeologic Consultants

## SOIL BORING LOG SB-1

Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
50		DRY	Sandy Clay, Reddish-Brown, Non-cohesive, Non-plastic, Very-Fine to Fine, Unoxidized, Dry, No Hydrocarbon Odor	
60		DRY	Sandy Clay, Reddish-Brown, Non-cohesive, Non-plastic, Very-Fine to Fine, Unoxidized, Dry, No Hydrocarbon Odor	

# ENSOLUM

Environmental, Engineering and Hydrogeologic Consultants

## SOIL BORING LOG SB-1

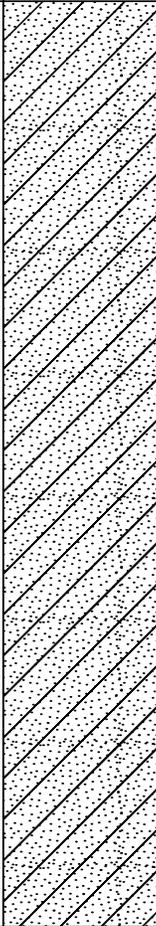
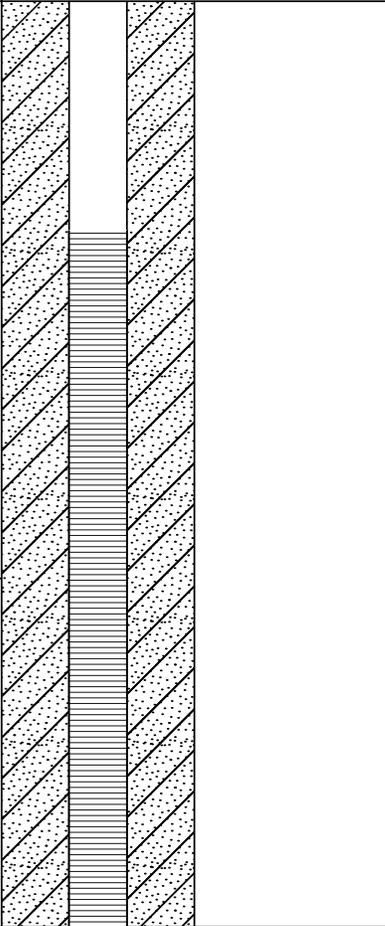
Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
70		DRY	Sandy Clay, Brown, Non-cohesive, Non-plastic, Very-Fine to Fine, Unoxidized, Dry, No Hydrocarbon Odor	
80		DRY	Sandy Clay, Brown, Non-cohesive, Non-plastic, Very-Fine to Fine, Unoxidized, Dry, No Hydrocarbon Odor	
90		DRY	Sandy Clay, Reddish-Brown, Non-cohesive, Non-plastic, Dry, No Hydrocarbon Odor	

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

# ENSOLUM

Environmental, Engineering and Hydrogeologic Consultants

## SOIL BORING LOG SB-1

Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
100		DRY	Sandy Clay, Reddish-Brown, Trace Gravel, Non-cohesive, Non-plastic, Dry, No Hydrocarbon Odor	
110			Termination Depth at: 105'	

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



## APPENDIX B

### Photographic Log





**Photographic Log**

Oxy USA Inc.  
Mesa Verde Bone Springs 0045H  
03B1417174



Photograph: 1 Date: 5/2/2024  
Description: Release extent from Northeast  
View: Southwest

Photograph: 2 Date: 5/2/2024  
Description: Release extent from Southeast  
View: Northwest



Photograph: 3 Date: 8/12/2024  
Description: Excavation extent from Northwest  
View: Southeast

Photograph: 4 Date: 8/12/2024  
Description: Excavation extent from Northeast  
View: Southwest

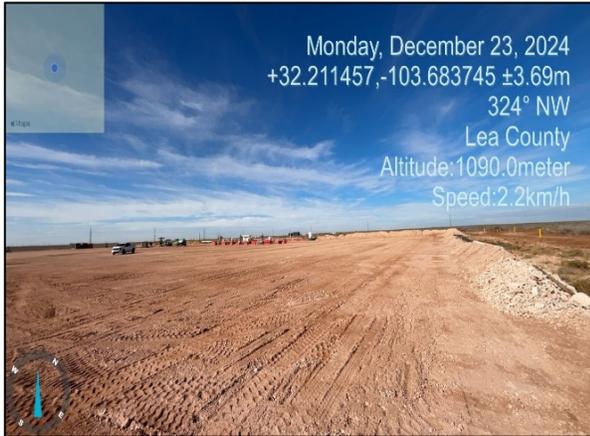


**Photographic Log**  
Oxy USA Inc.  
Mesa Verde Bone Springs 0045H  
03B1417174



Photograph: 1 Date: 8/13/2024  
Description: Excavation extent from Southwest  
View: Northeast

Photograph: 2 Date: 8/13/2024  
Description: Excavation extent from East  
View: West



Photograph: 3 Date: 12/23/2024  
Description: Backfilled excavations from Southeast  
View: Northwest

Photograph: 4 Date: 12/23/2024  
Description: Backfilled excavations from Southwest  
View: Northeast



**Photographic Log**

Oxy USA Inc.  
Mesa Verde Bone Springs 0045H  
03B1417174



Photograph: 1 Date: 2/3/2025  
Description: Excavation extent from South  
View: North

Photograph: 2 Date: 2/3/2025  
Description: Excavation extent from Northwest  
View: Southeast



Photograph: 3 Date: 2/3/2025  
Description: Excavation extent from North  
View: North

Photograph: 4 Date: 2/3/2025  
Description: Excavation extent from South  
View: North



**Photographic Log**  
Oxy USA Inc.  
Mesa Verde Bone Springs 0045H  
03B1417174



Photograph: 1 Date: 2/4/2025  
Description: Backfilled excavation from the South  
View: North

Photograph: 2 Date: 2/4/2025  
Description: Backfilled excavation from the West  
View: East



Photograph: 3 Date: 2/4/2025  
Description: Backfilled excavations from Southeast  
View: Northeast

Photograph: 4 Date: 2/4/2025  
Description: Backfilled excavations from Southwest  
View: Northwest



## APPENDIX C

### Laboratory Report & Chain-of-Custody Documentation





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

---

May 08, 2024

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

RE: MESA VERDE BONE SPRINGS 0045H

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 13:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 01 0.5' (H242372-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.104</b>	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
<b>Toluene*</b>	<b>0.301</b>	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
<b>Total BTEX</b>	<b>0.512</b>	0.300	05/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2024	ND	198	98.9	200	1.40	
<b>DRO &gt;C10-C28*</b>	<b>263</b>	10.0	05/04/2024	ND	207	104	200	1.54	
<b>EXT DRO &gt;C28-C36</b>	<b>26.7</b>	10.0	05/04/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 02 0.5' (H242372-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8		
Toluene*	<0.050	0.050	05/04/2024	ND	2.19	110	2.00	15.0		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/04/2024	ND	198	98.9	200	1.40		
<b>DRO &gt;C10-C28*</b>	<b>97.3</b>	10.0	05/04/2024	ND	207	104	200	1.54		
<b>EXT DRO &gt;C28-C36</b>	<b>27.0</b>	10.0	05/04/2024	ND						

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 03 0.5' (H242372-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8		
Toluene*	<0.050	0.050	05/04/2024	ND	2.19	110	2.00	15.0		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1470</b>	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20		
<b>DRO &gt;C10-C28*</b>	<b>817</b>	10.0	05/03/2024	ND	206	103	200	8.97		
<b>EXT DRO &gt;C28-C36</b>	<b>52.7</b>	10.0	05/03/2024	ND						

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 04 0.5' (H242372-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.098</b>	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
<b>Toluene*</b>	<b>0.184</b>	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
Total BTEX	<0.300	0.300	05/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
<b>DRO &gt;C10-C28*</b>	<b>692</b>	10.0	05/03/2024	ND	206	103	200	8.97	
<b>EXT DRO &gt;C28-C36</b>	<b>39.1</b>	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 05 0.5' (H242372-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.127</b>	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
<b>Toluene*</b>	<b>0.259</b>	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
<b>Total BTEX</b>	<b>0.386</b>	0.300	05/04/2024	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
<b>Chloride</b>	<b>80.0</b>	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
<b>DRO &gt;C10-C28*</b>	<b>318</b>	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 06 0.5' (H242372-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.068</b>	0.050	05/04/2024	ND	2.22	111	2.00	14.8		
<b>Toluene*</b>	<b>0.107</b>	0.050	05/04/2024	ND	2.19	110	2.00	15.0		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	05/07/2024	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	05/03/2024	ND	223	111	200	6.20		
<b>DRO &gt;C10-C28*</b>	<b>157</b>	10.0	05/03/2024	ND	206	103	200	8.97		
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 07 0.5' (H242372-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.124</b>	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
<b>Toluene*</b>	<b>0.378</b>	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
<b>Total BTEX</b>	<b>0.636</b>	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	05/07/2024	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	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 08 0.5' (H242372-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8		
Toluene*	<0.050	0.050	05/04/2024	ND	2.19	110	2.00	15.0		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>336</b>	16.0	05/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20			
<b>DRO &gt;C10-C28*</b>	<b>5440</b>	10.0	05/03/2024	ND	206	103	200	8.97			
<b>EXT DRO &gt;C28-C36</b>	<b>71.8</b>	10.0	05/03/2024	ND							

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 261 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 09 0.5' (H242372-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8		
<b>Toluene*</b>	<b>0.080</b>	0.050	05/04/2024	ND	2.19	110	2.00	15.0		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>528</b>	16.0	05/07/2024	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	05/03/2024	ND	223	111	200	6.20		
<b>DRO &gt;C10-C28*</b>	<b>153</b>	10.0	05/03/2024	ND	206	103	200	8.97		
<b>EXT DRO &gt;C28-C36</b>	<b>15.9</b>	10.0	05/03/2024	ND						

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 10 0.5' (H242372-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.109</b>	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
<b>Toluene*</b>	<b>0.320</b>	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
<b>Total Xylenes*</b>	<b>0.166</b>	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
<b>Total BTEX</b>	<b>0.595</b>	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20		
<b>DRO &gt;C10-C28*</b>	<b>7180</b>	10.0	05/03/2024	ND	206	103	200	8.97		
<b>EXT DRO &gt;C28-C36</b>	<b>53.6</b>	10.0	05/03/2024	ND						

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 405 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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

**Company Name:** Ensolum, LLC  
**Project Manager:** Beaux Jennings  
**Address:** 601 N. Marland St. STE 400  
**City:** Midland **State:** TX **Zip:** 79701  
**Phone #:** 210-219-8858 **Fax #:** 79701  
**Project #:** 03B147174 **Project Owner:** OXY  
**Project Name:** Mesa Verde Bone Springs 00454  
**Project Location:** Lea County  
**Sampler Name:** Tabitha Goodan  
**FOR LAB USE ONLY**

**BILL TO**  
**P.O. #:**  
**Company:** Oxy USA, Inc.  
**Attn:** Wade Dittich  
**Address:**  
**City:**  
**State:**  
**Zip:**  
**Phone #:** 575-390-2828  
**Fax #:**

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.			
122372	SS01	0.5'	G	1	X							5/22/24	1048	TPH
	SS02	0.5'	G	1	X							5/22/24	1050	BTEX
	SS03	0.5'	G	1	X							5/22/24	1052	Chloride
	SS04	0.5'	G	1	X							5/22/24	1054	
	SS05	0.5'	G	1	X							5/22/24	1056	
	SS06	0.5'	G	1	X							5/22/24	1058	
	SS07	0.5'	G	1	X							5/22/24	1100	
	SS08	0.5'	G	1	X							5/22/24	1102	
	SS09	0.5'	G	1	X							5/22/24	1104	
	SS10	0.5'	G	1	X							5/22/24	1106	

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**Relinquished By:** [Signature]  
**Received By:** [Signature]  
**Date:** 5/22/24  
**Time:** 1340  
**Observed Temp. °C:** 3.9  
**Corrected Temp. °C:**  
**Sample Condition:** Cool Intact Yes  No   
**Checked By:** [Signature]  
**Remarks:** No discrepancy  
**Verbal Result:**  Yes  No  Add'l Phone #:  
**All Results are emailed. Please provide Email address:** Blennings@ensolum.com / hgreen@ensolum.com  
**Standard:**  **Rush:**   
**Bacteria (only) Sample Condition:** Cool Intact Yes  No   
**Corrected Temp. °C:**

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



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

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August 16, 2024

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

RE: MESA VERDE BONE SPRINGS 0045H

Enclosed are the results of analyses for samples received by the laboratory on 08/12/24 17:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 11 (H244861-01)**

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	08/14/2024	ND	2.12	106	2.00	3.20		
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96		
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36		
Total BTEX	<0.300	0.300	08/14/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/14/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302		
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870		
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 12 (H244861-02)**

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	08/14/2024	ND	2.12	106	2.00	3.20		
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96		
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36		
Total BTEX	<0.300	0.300	08/14/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/14/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302		
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870		
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 13 (H244861-03)**

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	08/14/2024	ND	2.12	106	2.00	3.20	
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96	
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36	
Total BTEX	<0.300	0.300	08/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/14/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 14 (H244861-04)**

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	08/14/2024	ND	2.12	106	2.00	3.20		
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96		
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36		
Total BTEX	<0.300	0.300	08/14/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/14/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302		
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870		
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 15 (H244861-05)**

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	08/14/2024	ND	2.12	106	2.00	3.20		
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96		
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36		
Total BTEX	<0.300	0.300	08/14/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/14/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302		
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870		
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 06 2' (H244861-06)**

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	08/14/2024	ND	2.12	106	2.00	3.20		
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96		
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36		
Total BTEX	<0.300	0.300	08/14/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/14/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302		
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870		
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 07 2' (H244861-07)**

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	08/14/2024	ND	2.12	106	2.00	3.20	
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96	
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36	
Total BTEX	<0.300	0.300	08/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/14/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 08 2' (H244861-08)**

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	08/14/2024	ND	2.12	106	2.00	3.20		
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96		
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36		
Total BTEX	<0.300	0.300	08/14/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/14/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302		
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870		
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 09 2' (H244861-09)**

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	08/14/2024	ND	2.12	106	2.00	3.20	
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96	
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36	
Total BTEX	<0.300	0.300	08/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 10 2' (H244861-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2024	ND	2.12	106	2.00	3.20	
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96	
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36	
Total BTEX	<0.300	0.300	08/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 11 2' (H244861-11)**

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	08/14/2024	ND	2.12	106	2.00	3.20	
Toluene*	<0.050	0.050	08/14/2024	ND	2.18	109	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/14/2024	ND	2.23	112	2.00	2.96	
Total Xylenes*	<0.150	0.150	08/14/2024	ND	6.87	114	6.00	2.36	
Total BTEX	<0.300	0.300	08/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	209	104	200	0.302	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.0870	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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Celey D. Keene, 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. Marland St. STE 400

City: Midland

State: TX Zip: 79701

Phone #: (210)219-8858

Email: bjennings@ensolum.com

Project #: 01B147174

Project Owner:

Project Name: New Verde Bone Springs 005TH

City: State: Zip:

Project Location:

Phone #: Email:

Sampler Name: Kaoru Shimada

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500	ANALYSIS REQUEST	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:								ACID/BASE:	ICE / COOL
H2448d1	5511			1								8-12-24	1310	X	X	X			
	9512			1								1312	7	X	X	X			
	2513			1								1314	7	X	X	X			
	5514			1								1314	13	X	X	X			
	5215			1								8-12-24	1321	X	X	X			

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Relinquished By: *[Signature]* Date: 8-12-24 Received By: *[Signature]* Date: 8-12-24

Received By: *[Signature]* Date: 8-12-24

Relinquished By: *[Signature]* Date: 8-12-24

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

Observed Temp. °C: 3.8 Corrected Temp. °C: 3.2

Sample Condition: Cool  Moist  No  Yes  No  No

Checked By: *[Signature]*

Thermometer ID: 4513 #140 Correction Factor: -0.6°C

Standard  Observed Temp. °C: 3.8



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  
 Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: (210)219-8858 Email: bjennings@ensolum.com  
 Project #: 03B1417174 Project Owner:  
 Project Location: H24 Verle - Bone Springs 00454  
 Sampler Name: Kaoru Shimada  
 P.O. #: Company: OXY USA  
 Attn: Wade Dittrich  
 Address: City: State: Zip: Phone #: Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H244861	F506	3	C	1	X						8-12-24	1406	X	X	X
	F307	3	C	1	X						1408	1408	X	X	X
	F508	3	C	1	X						1410	1410	X	X	X
	F509	3	C	1	X						1412	1412	X	X	X
	F510	3	C	1	X						1414	1414	X	X	X
	F511	3	C	1	X						1416	1416	X	X	X

PLEASE NOTE: Labels and Drawings. Carefully verify and check contents every for any errors relating whether issued to control or not, and be linked to the amount paid by the client for the analysis. All dates including those for negligence and any other claims whatsoever, including without limitation, those for negligence, shall be deemed to be the date of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, those for negligence, arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 8-12-24 Received By: *[Signature]* Date: 8-12-24

Delivered By: (Circle One) UPS - Bus - Other:  Bus - Other:  Observed Temp. °C: 3.8 Corrected Temp. °C: 3.2

Sample Condition: Cool  Warm  Moist  Dry  Other:  Checked By: *[Signature]*

Thermometer ID: #445 - #440 Correction Factor: -0.6°C

Remarks: Paykey/AFENomATE

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

Alert Results are emailed. Please provide Email address: *[Blank]*

† Cardinal cannot accept verbal changes. Please email changes to celej.Keene@cardinallabnm.com

FORM-006 R 3.2 10/07/21



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

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August 19, 2024

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

RE: MESA VERDE BONE SPRINGS 0045H

Enclosed are the results of analyses for samples received by the laboratory on 08/13/24 16:29.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 03 0-2 (H244897-01)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52	
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	213	107	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	204	102	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 04 0-2 (H244897-02)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52	
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27	
Total BTEX	<0.300	0.300	08/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/15/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	213	107	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	204	102	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 01 0-2 (H244897-03)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52	
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27	
Total BTEX	<0.300	0.300	08/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	213	107	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	204	102	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 02 0-2 (H244897-04)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52	
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27	
Total BTEX	<0.300	0.300	08/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/15/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	213	107	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	204	102	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 01 2 (H244897-05)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52		
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45		
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52		
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27		
Total BTEX	<0.300	0.300	08/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/15/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	213	107	200	0.583		
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	204	102	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND						

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 02 2 (H244897-06)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52		
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45		
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52		
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27		
Total BTEX	<0.300	0.300	08/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/15/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	195	97.6	200	0.257		
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	208	104	200	2.34		
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND						

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 03 2 (H244897-07)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52		
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45		
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52		
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27		
Total BTEX	<0.300	0.300	08/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	16.0	16.0	08/15/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	195	97.6	200	0.257		
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	208	104	200	2.34		
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND						

Surrogate: 1-Chlorooctane 81.0 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 04 2 (H244897-08)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52		
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45		
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52		
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27		
Total BTEX	<0.300	0.300	08/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/15/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	195	97.6	200	0.257		
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	208	104	200	2.34		
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND						

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/13/2024	Sampling Date:	08/13/2024
Reported:	08/19/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Alyssa Parras
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 05 2 (H244897-09)**

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	08/15/2024	ND	1.99	99.3	2.00	1.52		
Toluene*	<0.050	0.050	08/15/2024	ND	1.98	99.0	2.00	2.45		
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.03	101	2.00	3.52		
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	3.27		
Total BTEX	<0.300	0.300	08/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>16.0</b>	16.0	08/15/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2024	ND	195	97.6	200	0.257		
DRO >C10-C28*	<10.0	10.0	08/14/2024	ND	208	104	200	2.34		
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND						

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: Ensolum, LLC

**BILL TO**

ANALYSIS REQUEST

Project Manager: Beau Jennings  
 Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: (210)219-8858 Email: bjennings@ensolum.com

P.O. #: Company: OXY USA  
 Attn: Wade Dittrich  
 Address: City: State: Zip:

Project #: 03B14174 Project Owner: Elisa Verde Bone  
 Project Location: El Paso Springs  
 Sampler Name: Kaoru Shimada

Phone #: 004511 Email:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL					
H24487	5W03	0-2	C	1	X						8-0-24	054	X	X	X	
	5W04	0-2	C	1	X						8-13-14	056	X	X	X	
	5W01	0-2	C	1	X						12-2	122	X	X	X	
	5V02	0-2	C	1	X						14-20	1420	X	X	X	
	F301	2	V	1	X						14-22	1422	X	X	X	
	F502	2	V	1	X						17-04	1704	X	X	X	
	F503	2	V	1	X						17-20	1720	X	X	X	
	F304	2	V	1	X						14-24	1424	X	X	X	
	F305	2	V	1	X						8-13-14	1208	X	X	X	
	V	2	E	1	X						Aug 13	1308	X	X	X	

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 All dates including those for negligence and any other cause whatsoever shall be deemed final, business days 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 but not limited to, business interruptions, loss of data, 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: Kaoru Shimada  
 Date: 8/13/24  
 Time: 1:29  
 Received By: [Signature]  
 Date: [Blank]  
 Time: [Blank]

Delivered By: (Circle One) UPS - Bus - Other: [Blank]  
 Observed Temp. °C: 5.0  
 Corrected Temp. °C: [Blank]  
 Sample Condition: Cool Intact [X] Yes [ ] No [ ]  
 Checked By: [Signature]  
 Standard [X] Observed Temp. °C: [Blank]  
 Thermometer ID: 4413  
 Correction Factor: 46.7°C  
 Add'l Phone #: [Blank]

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



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

August 20, 2024

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

RE: MESA VERDE BONE SPRINGS 0045H

Enclosed are the results of analyses for samples received by the laboratory on 08/14/24 14:03.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 27 0.5' (H244917-01)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	08/15/2024	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	08/14/2024	ND	195	97.6	200	0.257	
<b>DRO &gt;C10-C28*</b>	<b>121</b>	10.0	08/14/2024	ND	208	104	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 28 0.5' (H244917-02)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	08/15/2024	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	08/14/2024	ND	195	97.6	200	0.257	
<b>DRO &gt;C10-C28*</b>	<b>157</b>	10.0	08/14/2024	ND	208	104	200	2.34	
<b>EXT DRO &gt;C28-C36</b>	<b>21.2</b>	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 29 0.5' (H244917-03)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/15/2024	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	08/14/2024	ND	195	97.6	200	0.257	
<b>DRO &gt;C10-C28*</b>	<b>474</b>	10.0	08/14/2024	ND	208	104	200	2.34	
<b>EXT DRO &gt;C28-C36</b>	<b>51.6</b>	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 30 0.5' (H244917-04)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	08/15/2024	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	08/14/2024	ND	195	97.6	200	0.257	
<b>DRO &gt;C10-C28*</b>	<b>384</b>	10.0	08/14/2024	ND	208	104	200	2.34	
<b>EXT DRO &gt;C28-C36</b>	<b>119</b>	10.0	08/14/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 31 0.5' (H244917-05)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3040</b>	16.0	08/15/2024	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	08/15/2024	ND	195	97.6	200	0.257	
<b>DRO &gt;C10-C28*</b>	<b>1850</b>	10.0	08/15/2024	ND	208	104	200	2.34	
<b>EXT DRO &gt;C28-C36</b>	<b>136</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 32 0.5' (H244917-06)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>180</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>24.7</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 62.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 33 0.5' (H244917-07)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3000</b>	16.0	08/15/2024	ND	416	104	400	3.77	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>439</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>89.5</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 34 0.5' (H244917-08)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1640</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>3360</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>295</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 35 0.5' (H244917-09)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1420</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>406</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>50.5</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 36 0.5' (H244917-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>243</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>18.9</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 16 0.5' (H244917-11)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>94.6</b>	10.0	08/15/2024	ND	219	109	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 17 0.5' (H244917-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>288</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>54.0</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 18 0.5' (H244917-13)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>235</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>19.7</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 19 0.5' (H244917-14)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>957</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>134</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 70.7 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 20 0.5' (H244917-15)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>173</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>27.2</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 66.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 21 0.5' (H244917-16)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>1030</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>70.8</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 60.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 22 0.5' (H244917-17)**

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	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>141</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>25.8</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 55.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 23 0.5' (H244917-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>31.3</b>	10.0	08/15/2024	ND	219	109	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 24 0.5' (H244917-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>446</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>73.6</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 62.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 25 0.5' (H244917-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.05	103	2.00	1.57	
Toluene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	2.60	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.32	116	2.00	0.476	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.97	116	6.00	0.450	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>144</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>12.3</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 56.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 37 0.5' (H244917-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.25	112	2.00	6.99	
Toluene*	<0.050	0.050	08/15/2024	ND	2.18	109	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.49	108	6.00	12.6	
Total BTEX	<0.300	0.300	08/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 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
<b>Chloride</b>	<b>560</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>151</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>14.4</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 38 0.5' (H244917-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.25	112	2.00	6.99	
Toluene*	<0.050	0.050	08/15/2024	ND	2.18	109	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.49	108	6.00	12.6	
Total BTEX	<0.300	0.300	08/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>1320</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>111</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 39 0.5' (H244917-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.25	112	2.00	6.99	
Toluene*	<0.050	0.050	08/15/2024	ND	2.18	109	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.49	108	6.00	12.6	
Total BTEX	<0.300	0.300	08/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>73.6</b>	10.0	08/15/2024	ND	219	109	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/14/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 26 0.5' (H244917-24)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.25	112	2.00	6.99	
Toluene*	<0.050	0.050	08/15/2024	ND	2.18	109	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.16	108	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	6.49	108	6.00	12.6	
Total BTEX	<0.300	0.300	08/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	08/15/2024	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	08/15/2024	ND	206	103	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>56.9</b>	10.0	08/15/2024	ND	219	109	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>15.5</b>	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC  
Project Manager: Beaux Jennings

BILL TO

ANALYSIS REQUEST

Address: 601 N. Marland St. STE 400  
City: Midland State: TX Zip: 79701  
Phone #: (210)219-8858 Email: bjennings@ensolum.com  
Project #: 0924442191-0301917192 Project Owner:  
Project Name: ~~Central Fly Ash Storage~~ Mrs. Verde Banc Services  
Project Location: (DD451)  
Sampler Name: Kaoru Shimada  
FOR LAB USE ONLY

P.O. #: Company: OXY USA  
Attn: Wade Dittich  
Address: City: State: Zip:  
Phone #: Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500	Hold
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:						
H244417	5527	0.5'										8-14-24	1212	X	X	X	
	5528												1213	X	X	X	
	5529												1214	X	X	X	
	5530												1215	X	X	X	
	5531												1216	X	X	X	
	5532												1217	X	X	X	
	5533												1218	X	X	X	
	5534												1219	X	X	X	
	5535												1220	X	X	X	
	5536												1221	X	X	X	

PLEASE NOTE: Liability and Sample: Customer's liability for errors or omissions remains with the customer. The amount paid by the customer for the analysis...

Relinquished By: *Kevin Shiswale*  
Date: *8-14-24*  
Received By: *Speckington*  
Date: *8-14-24*

Delivered By: (Circle One) Sampler - UPS - Bus - Other: *5.2c*  
Observed Temp. - C: *5.8c*  
Corrected Temp. - C: *5.2c*  
Sample Condition: Cool  Hot  Ice  Dry   
Checked By: *SR*  
Thermometer ID: *#140*  
Correction Factor: *-0.0c*  
Remarks: *Paykey/AFE/NonAFE:*

1/3







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

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February 10, 2025

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

RE: MESA VERDE BONE SPRINGS 0045H

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 9:21.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 01 1' (H250647-01)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 02 0.5' (H250647-02)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 03 1' (H250647-03)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 04 0.5' (H250647-04)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
<b>DRO &gt;C10-C28*</b>	<b>14.6</b>	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 05 0.5' (H250647-05)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
<b>DRO &gt;C10-C28*</b>	<b>83.5</b>	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 06 0.5' (H250647-06)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
<b>DRO &gt;C10-C28*</b>	<b>69.1</b>	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 07 0.5' (H250647-07)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>528</b>	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
<b>DRO &gt;C10-C28*</b>	<b>16.2</b>	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 09 0.5' (H250647-08)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>304</b>	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
<b>DRO &gt;C10-C28*</b>	<b>13.0</b>	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 21 1' (H250647-09)**

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	02/05/2025	ND	1.87	93.7	2.00	2.93	
Toluene*	<0.050	0.050	02/05/2025	ND	2.05	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.26	104	6.00	1.89	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 31 1' (H250647-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 34 1' (H250647-11)**

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	02/05/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SS 38 1' (H250647-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 05 0-1' (H250647-13)**

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	02/05/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 06 0-1' (H250647-14)**

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	02/05/2025	ND	1.97	98.6	2.00	0.308		
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769		
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260		
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872		
Total BTEX	<0.300	0.300	02/05/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/05/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69		
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73		
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 07 0-1' (H250647-15)**

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	02/05/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 08 0-1' (H250647-16)**

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	02/05/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/04/2025	Sampling Date:	02/03/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE BONE SPRINGS 0045H	Sampling Condition:	Cool & Intact
Project Number:	03B1417174	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 09 0-1' (H250647-17)**

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	02/05/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/05/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	190	95.2	200	3.69	
<b>DRO &gt;C10-C28*</b>	<b>11.6</b>	10.0	02/05/2025	ND	192	96.2	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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**

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Georgiana McSwane  
 Address: 601 N Marientfeld Suite # 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 254-459-2338 Email: gmcswane@ensolum.com  
 Project #: 03B1417174 Project Owner: Tyson Pierce  
 Project Name: Mesa Verde Bone Springs 0045H  
 Project Location: 32.2120103, -103.683758  
 State: Zip:  
 Sampler Name: Kaoru Shimada, Nicolas Christakos  
 Phone #: Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:			ICE / COOL	OTHER:	BTEX 8021 B
HSX047	SS01	1	C	1	X						2/3/25	1407	X	X	X
	SS02	0.5	C	1	X						2/3/25	947	X	X	X
	SS03	1	C	1	X						2/3/25	1345	X	X	X
	SS04	0.5	C	1	X						2/3/25	1231	X	X	X
	SS05	0.5	C	1	X						2/3/25	1234	X	X	X
	SS06	0.5	C	1	X						2/3/25	1241	X	X	X
	SS07	0.5	C	1	X						2/3/25	939	X	X	X
	SS09	0.5	C	1	X						2/3/25	1220	X	X	X
	SS21	1	C	1	X						2/3/25	956	X	X	X
	SS31	1	C	1	X						2/3/25	936	X	X	X

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Relinquished By: *[Signature]* Date: 2-4-25 Received By: *[Signature]* Date: 2-4-25  
 Time: 7:57 AM Received By: *[Signature]* Time: 9:12 AM  
 Relinquished By: *[Signature]* Date: 2-4-25 Received By: *[Signature]* Date: 2-4-25  
 Time: 9:12 AM Received By: *[Signature]* Time: 9:12 AM

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

Observed Temp. °C: 1.0 Corrected Temp. °C: 1.3  
 Sample Condition:  Intact  Cool  No  No

Checked By: *[Signature]* (Initials)

Thermometer ID: ~~444~~ #140 Correction Factor: ~~0.3~~ +0.3  
 Standard  Observed Temp. °C  Backfill (only) Sample Condition  Yes  No  No  No Corrected Temp. °C

REMARKS: Paykey/AFE/NonAFE:   
 Verbal Results:  Yes  No Add'l Phone #:   
 All Results are emailed. Please provide Email address: gmcswane@ensolum.com

FOR-RL-006 R.3.2 1/007/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Project Manager: Georgiana McSwane  
 Address: 601 N Marlenfeld Suite # 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 264-459-2338 Email: gmcswane@ensolum.com  
 Project #: 03B1417174 Project Owner: Tyson Pierce  
 Project Name: Mesa Verde Bone Springs 0045H  
 Project Location: 32.2120103, -103.683758  
 Sampler Name: Kaoru Shimada, Nicolas Christakos

P.O. #: \_\_\_\_\_  
 Company: Oxy USA, Inc.  
 Attn: Wade Dittich  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Email: \_\_\_\_\_

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
11	SS34	1	C	1	X							2/3/25	930	X	X	X
12	SS38	1	C	1	X							2/3/25	909	X	X	X
13	SW05	0-1	C	1	X							2/3/25	1203	X	X	X
14	SW06	0-1	C	1	X							2/3/25	1206	X	X	X
15	SW07	0-1	C	1	X							2/3/25	1210	X	X	X
16	SW08	0-1	C	1	X							2/3/25	1346	X	X	X
17	SW09	0-1	C	1	X							2/3/25	1408	X	X	X

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Relinquished By: [Signature] Date: 2-4-25 Received By: Nicolas Christakos Date: 2-4-25  
 Requisitioned By: Nicolas Christakos Time: 09:21 Received By: [Signature] Time: 1:30  
 Delivered By: (Circle One) Observed Temp. °C: 1.0 Corrected Temp. °C: 1.3  
 Sampler - Ups - Bus - Other: \_\_\_\_\_  
 Sample Condition:  Cool  Intact  No  No  
 CHECKED BY: (Initials) [Signature]  
 Remarks: PayKey/A/E/NonAFE:  
 Verbal Results:  Yes  No  
 All Results are emailed. Please provide Email address: gmcswane@ensolum.com  
 Add'l Phone #: \_\_\_\_\_  
 Turnaround Time:  Rush  Standard  Bacterial (only) Sample Condition  
 Thermometer ID: #113 Correction Factor: -0.5°C  
 Observed Temp. °C: 10.3  
 Corrected Temp. °C: \_\_\_\_\_

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



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

---

September 19, 2024

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

RE: LEA LAND CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/13/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LEA LAND CALICHE PIT	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: LEA LAND CALICHE PIT 0.5' (H245619-01)**

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	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>560</b>	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
<b>DRO &gt;C10-C28*</b>	<b>98.6</b>	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Notes and Definitions**

- 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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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. #:

Address: 601 N. Marlandfield St. STE 400

Company: OXY USA

City: Midland State: TX Zip: 79701

Attn: Wade Dittrich

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

Address:

Project #: 03B1417160 Project Owner:

City:

Project Name: Lea Land Caliche Pit.

State: Zip:

Project Location:

Phone #: Email:

Sampler Name: Kaoru Shimada

FOR LAB USE ONLY

MATRIX PRESERV. SAMPLING

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500	Hold
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE						
H2451A9	Lea Land Caliche Pit	0.5	C	1	X					9-15-24	10:41	X	X	X	

FIELD NOTE: Lab ID and Sample ID must be marked on container or bag, and be linked to the amount paid by the client for the analysis.

All claims including those for negligence and any other claims 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 rendered by Cardinal, regardless of whether such claim is based upon any of the above stated provisions or otherwise.

Relinquished By: Kaoru Shimada

Date: 9-16-24

Received By: [Signature]

Verbal Results:  Yes  No

Additional Phone #:

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

Observed Temp. °C Corrected Temp. °C

4.3 5.7

Sample Condition Cool Jacket  Yes  No

CHECKED BY: [Signature]

Thermometer Type:  Standard  Bakertite (only) Sample Condition

Thermometer ID: #1140

Correction Factor: -0.6 °C

FORM-008 R.3.2 10/07/21

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## APPENDIX D

### NMOCD Correspondence





---

**Fw: The Oil Conservation Division (OCD) has approved the application, Application ID: 415891**

---

From Dittrich, John W <Wade\_Dittrich@oxy.com>

Date Fri 2025-01-03 1:09 PM

To Kelly Lowery <klowery@ensolum.com>; Hadlie Green <hgreen@ensolum.com>

Cc Georgiana McSwane <gmcswane@ensolum.com>; Samantha MacKenzie <smackenzie@ensolum.com>

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

**Mesa Verde Bone Springs 0045H**--11/03/2022

**Wade Dittrich**

**Environmental Advisor**

**New Mexico**

**575-390-2828**

**wade\_dittrich@oxy.com**

---

**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>

**Sent:** Friday, January 3, 2025 11:06 AM

**To:** Dittrich, John W <wade\_dittrich@oxy.com>

**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 415891

**WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.**

---

To whom it may concern (c/o Wade Dittrich for OXY USA INC),  
The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2231459478,  
with the following conditions:

- **Approved**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,

Crystal Walker

505-584-2334

Crystal.Walker@emnrd.nm.gov

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

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 448497

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2231459478
Incident Name	NAPP2231459478 MESA VERDE BONE SPRINGS 0045H @ 30-025-48815
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-48815] MESA VERDE BONE SPRING UNIT #045H

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	MESA VERDE BONE SPRINGS 0045H
Date Release Discovered	11/03/2022
Surface Owner	State

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Dump Valve   Crude Oil   Released: 60 BBL   Recovered: 40 BBL   Lost: 20 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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 2

Action 448497

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/30/2024
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 448497

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	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	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1/2 and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	3040
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	7204
GRO+DRO (EPA SW-846 Method 8015M)	5440
BTEX (EPA SW-846 Method 8021B or 8260B)	0.7
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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	05/02/2024
On what date will (or did) the final sampling or liner inspection occur	02/28/2025
On what date will (or was) the remediation complete(d)	02/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	2100
What is the estimated volume (in cubic yards) that will be reclaimed	224
What is the estimated surface area (in square feet) that will be remediated	2100
What is the estimated volume (in cubic yards) that will be remediated	224

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

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

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QUESTIONS, Page 4

Action 448497

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/30/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 448497

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 448497

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>426628</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>02/04/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>15</b>
What was the sampling surface area in square feet	<b>8675</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3440
What was the total volume (cubic yards) remediated	210
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	3440
What was the total volume (in cubic yards) reclaimed	210
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: 04/03/2025
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Action 448497

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 448497

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448497
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	4/9/2025
amaxwell	For future reports, please submit a more recent sample from Lea Land as the current sample is coming up on being a year old. It is also concerning that the backfill material meets the closure criteria, however, it is just below Table I regulations. As an operator, purchasing "clean" backfill, this is concerning.	4/9/2025
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/9/2025
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.	4/9/2025