



November 11, 2025

New Mexico Oil Conservation Division

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

**Re: Reclamation Report
Shell State 1C CTB
Incident Number nAPP2402456040
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared the following *Reclamation Report* for the Shell State 1C CTB (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes a vegetation monitoring plan.

BACKGROUND

The Site is located in Unit C, Section 36, Township 22 South, Range 32 East, in Lea County, New Mexico (32.354063°, -103.631131°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On January 23, 2024, a ball valve was left open due to human error and resulted in the release of 40 barrels (bbls) of produced water and 10 bbls of crude oil into the surrounding pasture, with approximately 2.5 bbls of produced water and 2.5 bbls of crude oil recovered via vacuum recovery efforts. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Notification of Release (NOR) Form on January 24, 2024. The release was assigned Incident Number nAPP2402456040.

Delineation and excavation of impacted soil was completed at the Site between October 2024 and February 2025. The final excavation extent measured approximately 9,872 square feet. A total of approximately 4,733 cubic yards (cy) of impacted soil were removed during the excavation activities. Based on the delineation and excavation soil sample analytical results, a *Remediation Closure Report* was submitted to the NMOCD and NMSLO on April 28, 2025. The NMSLO approved the *Remediation Closure Report* on May 15, 2025, and the NMOCD approved the *Remediation Closure Report* on June 25, 2025.

Additional details regarding the release, Site Characterization, compliance with the Cultural Properties Protection Rule, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Remediation Closure Report*, included as an attachment to this report. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

Oxy USA Inc.
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RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured soil and the disturbed area was restored to its original condition. The excavation extent and reclamation area are shown on the attached Figure 1. Photographic documentation of the backfilled excavation is included as Appendix A.

One representative 5-point composite sample (BF01) was collected from the topsoil backfill material on September 17, 2025. The backfill soil sample was transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)–gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500 Cl-B.

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

The soil in the vicinity of the release area includes predominantly fine sand from surface to 30 inches below ground surface (bgs) and a fine sandy loam from 30 inches bgs to at least 60 inches bgs (Pyote and Maljamar Fine Sands). The reclaimed pasture area will be seeded during the Spring of 2026 when temperatures and precipitation are conducive to vegetative growth. The pasture area will be seeded with the below NMSLO Seed Mix, Deep Sand (DS) at the rate specified in pounds of pure live seed (PSL) per acre.

Common Name	Variety	PLS/Acre
Sand bluestem	Elida, VNS, So.	4.0
Sideoats grama	Vaughn, El Reno	4.0
Little bluestem	Cimarron, Pastura	3.0
Plains bristlegrass	VNS, Southern	1.0
Sand dropseed	VNS, Southern	2.0
Blue grama	Lovington	1.0

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled, and the seed will be raked in by chaining or dragging the Site.

VEGETATION MONITORING

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

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

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

RECLAMATION APPROVAL REQUEST

Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, Oxy respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident Number nAPP2402456040.

If you have any questions or comments, please contact Ms. Kelly Lowery at (214) 733-3165 or klowery@ensolum.com.

Sincerely,
Ensolum, LLC



Kelly Lowery
Project Geologist



Aimee Cole
Senior Managing Scientist

cc: Daniel Sparks, Oxy
New Mexico State Land Office

Appendices:

Figure 1	Excavation Extent/Reclamation Area
Table 1	Backfill Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Report & Chain of Custody Documentation
Appendix C	Seed Mixture
Appendix D	<i>Remediation Closure Report</i> : Dated April 28, 2025



FIGURE



Excavation Extent/Reclamation Area

Oxy USA Inc.
Shell State 1C CTB
Incident Number: nAPP2402456040
32.354063, -103.631131
Lea County, New Mexico

FIGURE
1



TABLE

TABLE 1
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
 Shell State 1C CTB
 Oxy USA Inc.
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Backfill Soil Sample										
BF01	09/17/2025	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

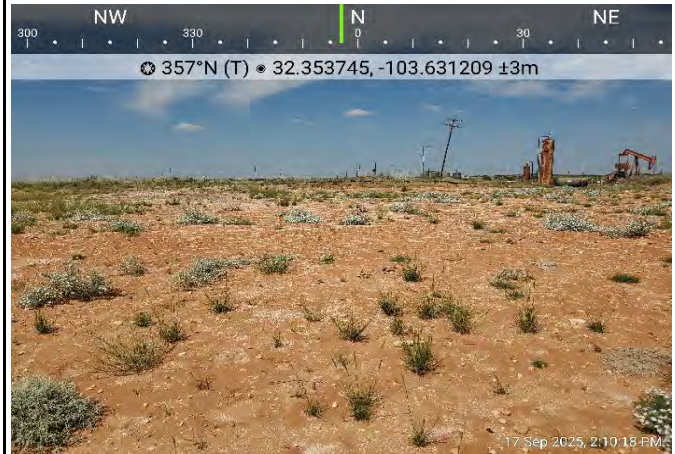
Photographic Log

**Photographic Log**

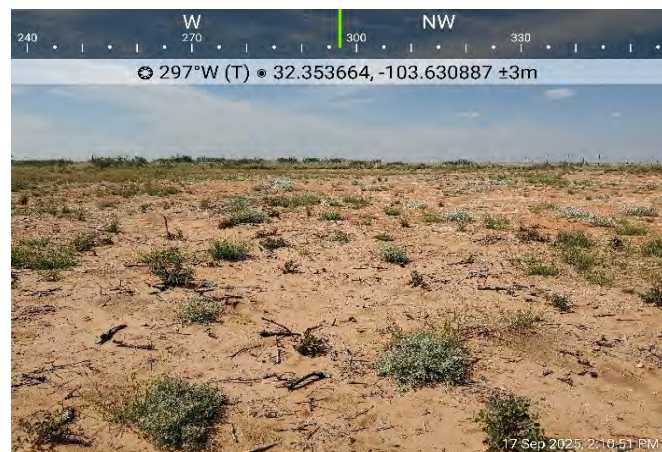
Oxy USA Inc
Shell State 1C CTB
nAPP2402456040



Photograph: 1 Date: 9/17/2025
Description: Reclaimed excavation extent
View: East



Photograph: 2 Date: 9/17/2025
Description: Reclaimed excavation extent
View: North



Photograph: 3 Date: 9/17/2025
Description: Reclaimed excavation extent
View: West



Photograph: 4 Date: 9/17/2025
Description: Reclaimed excavation extent
View: South



APPENDIX B

Laboratory Analytical Report & Chain of Custody Documentation



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

September 23, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/17/25 16:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/17/2025
 Reported: 09/23/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 09/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BF 01 (H255822-01)

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	09/18/2025	ND	1.75	87.6	2.00	10.7	
Toluene*	<0.050	0.050	09/18/2025	ND	1.78	88.9	2.00	8.39	
Ethylbenzene*	<0.050	0.050	09/18/2025	ND	1.78	88.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	09/18/2025	ND	5.24	87.3	6.00	5.79	
Total BTEX	<0.300	0.300	09/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/18/2025	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	09/18/2025	ND	205	103	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/18/2025	ND	212	106	200	0.429	
EXT DRO >C28-C36	<10.0	10.0	09/18/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.7 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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APPENDIX C

Seed Mixture

NMSLO Seed Mix**Deep Sand (DS)****DEEP SAND (DS) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	4.0	F
Sideoats grama	Vaughn, El Reno	4.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Plains bristlegrass	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	2.0	S
Blue grama	Lovington	1.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	0.5	D
Prairie Conflower	VNS, Southern	0.5	D
Total PLS/acre		17	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.





APPENDIX D

Remediation Closure Report Dated April 28, 2025



REMEDIATION CLOSURE REPORT

Property:

Shell State 1C CTB

**Unit C, S36, T22S, R32E
32.354063° N, 103.631131° W
Lea County, New Mexico
Facility ID: fAPP2127031415
NMOCD Incident ID: nAPP2402456040**

April 28, 2025


Ensolum Project No. 03B1417144

Prepared for:


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

Attn: Wade Dittrich

Prepared by:



Kelly Lowery, GI
Project Geologist



Beaux Jennings
Associate Principal

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APPENDICES

- Appendix A: Figures**
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- Appendix C: Photographic Documentation**
- Appendix D: Table(s)**
- Appendix E: Laboratory Data Sheets & Chain-of-Custody Documentation**

Shell State 1C CTB

Unit C, S36, T22S, R32E
32.354063° N, 103.631131° W
Lea County, New Mexico
Facility ID: fAPP2127031415
NMOCD Incident ID: nAPP2402456040

Ensolum Project No. 03B1417144

1.0 INTRODUCTION

1.1 Site Description and Background

Operator:	Oxy USA, INC.
Site Name:	Shell State 1C CTB
Location:	Unit C, Section 36, Township 22 South, Range 32 East Facility ID: fAPP2127031415 32.354063° N, 103.631131° W Lea County, New Mexico
Property:	New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 23, 2024, Oxy had a release of produced water at the Shell State 1C CTB, hereinafter referred to as the "Site", due to a ball valve being left open on a cut transfer line. Approximately 40 barrels (bbls) of produced water was released onto the ground surface with 2.5 bbls of produced water recovered and 10 bbls of oil released with 2.5 bbls of oil recovered. Oxy subsequently reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on January 24, 2024. The release was assigned Incident Number nAPP2402456040.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

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

- No exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database.
 - Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB01/C-04908-POD1) was installed on December 9, 2024 by West Texas Water Well Service (WTWWS), a licensed driller in the state of New Mexico, and Ensolum personnel. The soil boring was installed on Oxy's Covington A Federal #09 pad approximately 0.18-miles north of the Site to a total depth of 110 feet below ground surface (bgs) and was left open for at least 72-hours to confirm the presence or absence of groundwater. On December 12, 2024, the soil boring was gauged with no groundwater encountered at 110 feet bgs.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database, there are no private, domestic freshwater wells used by less than five households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database, no freshwater wells have been identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographical Information System (GIS), Maps, and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within a stable area, also referred to as low karst potential.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

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

3.0 SOIL REMEDIATION ACTIVITIES

On January 23, 2024, Oxy had a release of produced water at the Site due to a ball valve being left open on a cut transfer line. Approximately 40 bbls of produced water was released onto the ground surface with 2.5 bbls of produced water recovered and 10 bbls of oil released with 2.5 bbls of oil recovered.

Due to the Site being located on NMSLO land, an Archeological Records Management System (ARMS) review was required prior to beginning remediation activities. This review would determine if any known cultural properties had been previously identified within the proposed remediation area and if the area had been previously surveyed for cultural resources.

On April 24, 2024, on behalf of Oxy, Beaver Creek Archaeology and Environmental (Beaver Creek) presented their ARMS Review findings to the NMSLO. Their review indicated that the area had required a pedestrian survey be conducted since to ensure no cultural properties were in close vicinity to the Site. No cultural properties were found within the survey area and it was recommended that a finding of No Historic Properties Affected with no further archaeological work be approved for remediation activities to proceed.

On June 20, 2024, Oxy was awarded a positive response ARMS review and approval from NMSLO to proceed with remediation activities with no conditions.

On October 10, 2024, subsequent to excavation activities, Ensolum arrived on-Site to collect 32 composite soil samples from the excavation floor (FS01 through FS32) at depths ranging from 9 to 13 feet bgs, and 26 composite soil samples from 14 locations on the excavation sidewalls (SW01 through SW14) at depths ranging from 0-4 feet, 4-9 feet, 4-13 feet, and 9-13 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

From January 22 2025 through January 24, 2025, subsequent to additional excavation activities, Ensolum arrived on-Site to collect 27 composite soil samples from the excavation floor (FS01 through FS08, FS10 through FS22, FS27, and FS29 through FS33) at depths ranging from 11 to 17 feet bgs, and 16 composite soil samples from 12 locations on the excavation sidewalls (SW01 through SW12) at depths ranging from 0-4 and 4-15 feet bgs. During this time, the locations of

excavation sidewall SW13 and SW14 were removed due to additional excavation activities. Based on laboratory analytical data, additional excavation and/or remediation was required.

On February 6, 2025, subsequent to additional excavation activities, Ensolum arrived on-Site to collect one composite soil sample from the excavation floor (FS16) at a depth of 18 feet bgs and one composite soil sample from the excavation sidewall (SW16) at a depth of 13-18 feet bgs. Based on laboratory analytical data, no additional excavation and/or remediation was required.

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

The final excavation area measured approximately 69 feet long and 61 feet wide at its minimum extents and 121 feet long and 117 feet wide at its maximum extents with a depth ranging from 9 to 18 feet bgs.

The lithology encountered during the completion of closure activities consisted of the Pyote and Maljamar Fine Sands, (PU) with fine sand from the surface to 30 inches bgs, and a fine sandy loam from 30 inches bgs to at least 60 inches bgs.

The excavation measured approximately 9,872 square feet in arial extent. A total of approximately 4,733 cubic yards (cy) of soil were excavated from the Site and hauled off for proper disposal at the Lea Land Facility located in Hobbs, New Mexico. A total of approximately 1,463 cy of soil was reclaimed per the 19.15.29.13 NMAC Reclamation Requirements for the top four feet of soil (Reclamation Requirements).

After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Stacy Mills Pit (Mills Ranch Pit) for soils greater than 4 feet bgs (Remediation Zone) and from the DR PI Topsoil for soils less than 4 feet bgs (Reclamation Zone) and then re-contoured to match pre-existing conditions.

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

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from October 10, 2024, to February 6, 2025, included the collection of a total of 60 composite soil samples from 33 locations from the excavation floor (FS01 through FS33) and 43 composite soil samples from 15 locations from the excavation sidewalls (SW01 through SW14 and SW16). Additionally, one composite soil sample was collected from the backfill material used at the Site for soil in the Remediation Zone (Mills Ranch Pit) on September 30, 2024 and from the backfill material used at the Site for soils in the Reclamation Zone (DR PI Topsoil) on February 6, 2025, prior to use at the Site.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

Laboratory analytical results are summarized in **Table 1**, **Table 2**, **Table 3**, and **Table 4** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

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

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site, and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the soils remaining in place at the Site and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated that the combined TPH-GRO/DRO concentrations for soils remaining in place at the Site in the Remediation Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that the combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in the Remediation Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated chloride concentrations for soils remaining in place at the Site in the Remediation Zone did not exceed the laboratory SDLs and/or applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in the Reclamation Zone and the backfill materials did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Reclamation Zone and the backfill materials did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.

Laboratory analytical results are summarized in **Table 1**, **Table 2**, **Table 3**, and **Table 4** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

The release occurred in pasture, and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad area in the Reclamation Zone that was impacted by the release per 19.15.29.13.D (1) NMAC Reclamation Requirements for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the pasture area: The soil in the vicinity of the release includes: PU with fine sand from the surface to 30 inches bgs, and a fine sandy loam from 30 inches bgs to at least 60 inches bgs;

- The excavation was backfilled with locally sourced topsoil from the DR PI Topsoil and recontoured to match the surrounding grade;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be Blow Sand/Deep Sand (BS/DS) Sites Seed Mixture as described in the NMSLO Revegetation Guidelines Handbook for Southeastern New Mexico, dated 2018;
- The following Revegetation Procedure will be implemented:
 - For flat or gently sloping areas with slopes less than or equal to 3H:1V;
 - Soil Amendments: Apply composted manure or similar at the rate of 30.0 air dry tons/acre;
 - Fertilize: Type 2;
 - Mulch – Grass Hay mulch applied at 2.0 tons/acre;
 - Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:
 - Scarify
 - Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding);
 - Drill Seed – use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal;
 - Mulch – Grass Hay mulch applied at 2.0 tons/acre;
 - Crimp;
 - Tackify – tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish, and;
 - Wind Fence – Install wind fence.
- Backfilling of the excavation has already been completed;
- Seeding is anticipated to be completed in the spring/summer when temperatures and precipitation are most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site; and
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well, and any needed BMPs will be installed to support growth and limit erosion.

8.0 FINDINGS AND RECOMMENDATION

- On January 23, 2024, Oxy had a release of produced water at the Site due to a ball valve being left open on a cut transfer line. Approximately 40 bbls of produced water was released onto the ground surface with 2.5 bbls of produced water recovered and 10 bbls of oil released with 2.5 bbls of oil recovered.
- Ensolum's soil sampling program from October 10, 2024, to February 6, 2025, included the collection of a total of 60 composite soil samples from 33 locations from the excavation floor (FS01 through FS33) and 43 composite soil samples from 15 locations from the excavation sidewalls (SW01 through SW14 and SW16). Additionally, one composite soil sample was collected from the backfill material used at the Site for soil in the Remediation Zone (Mills Ranch Pit) on September 30, 2024 and from the backfill material used at the Site for soils in the Reclamation Zone (DR PI Topsoil) on February 6, 2025, prior to use at the Site.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- The final excavation area measured approximately 69 feet long and 61 feet wide at its minimum extents and 121 feet long and 117 feet wide at its maximum extents with a depth ranging from 9 to 18 feet bgs.
- Based on laboratory analytical results, the final composite soil samples within the impacted area and the backfill materials did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Stacy Mills Pit (Mills Ranch Pit) for soils greater than 4 feet bgs (Remediation Zone) and from the DR PI Topsoil for soils less than 4 feet bgs (Reclamation Zone) and then re-contoured to match pre-existing conditions.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of

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

9.3 Reliance

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

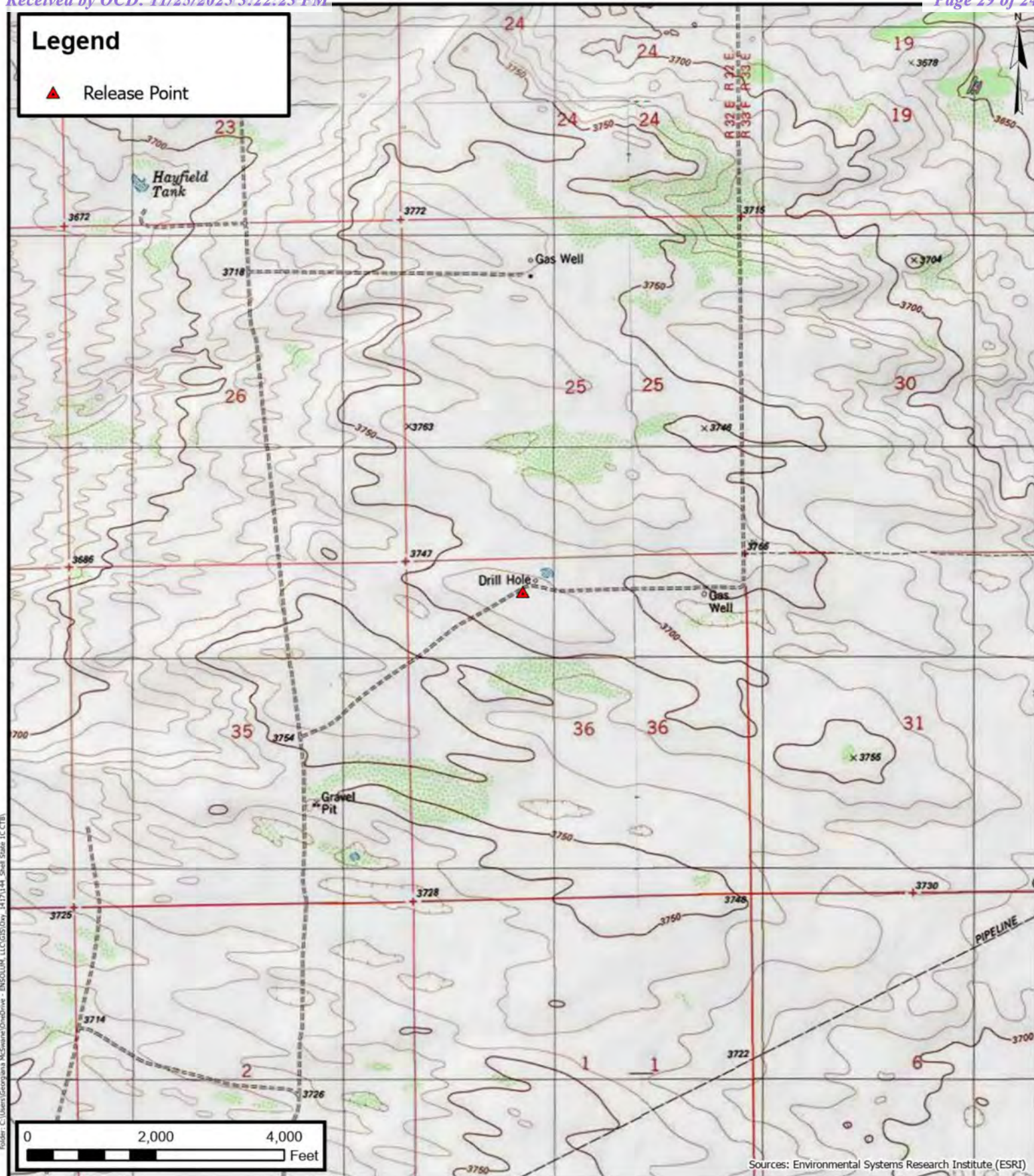


APPENDIX A

Figures

Legend

▲ Release Point



Sources: Environmental Systems Research Institute (ESRI)

**Topographic Map**

Oxy USA Inc.
Shell State 1C CTB
32.354063° N, 103.631131° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417144

FIGURE**1**



Site Vicinity Map

Oxy USA Inc.
Shell State 1C CTB
32.354063° N, 103.631131° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417144

FIGURE
2

Legend

- ▲ Release Point
- Confirmation Soil Sample Location
- Confirmation Soil Sample Location Removed by Excavation
- ▨ Excavation Extent
- - - Composite Soil Sample
- - - Grid Boundary



0 25 50
Feet

Sources: Environmental Systems Research Institute (ESRI)



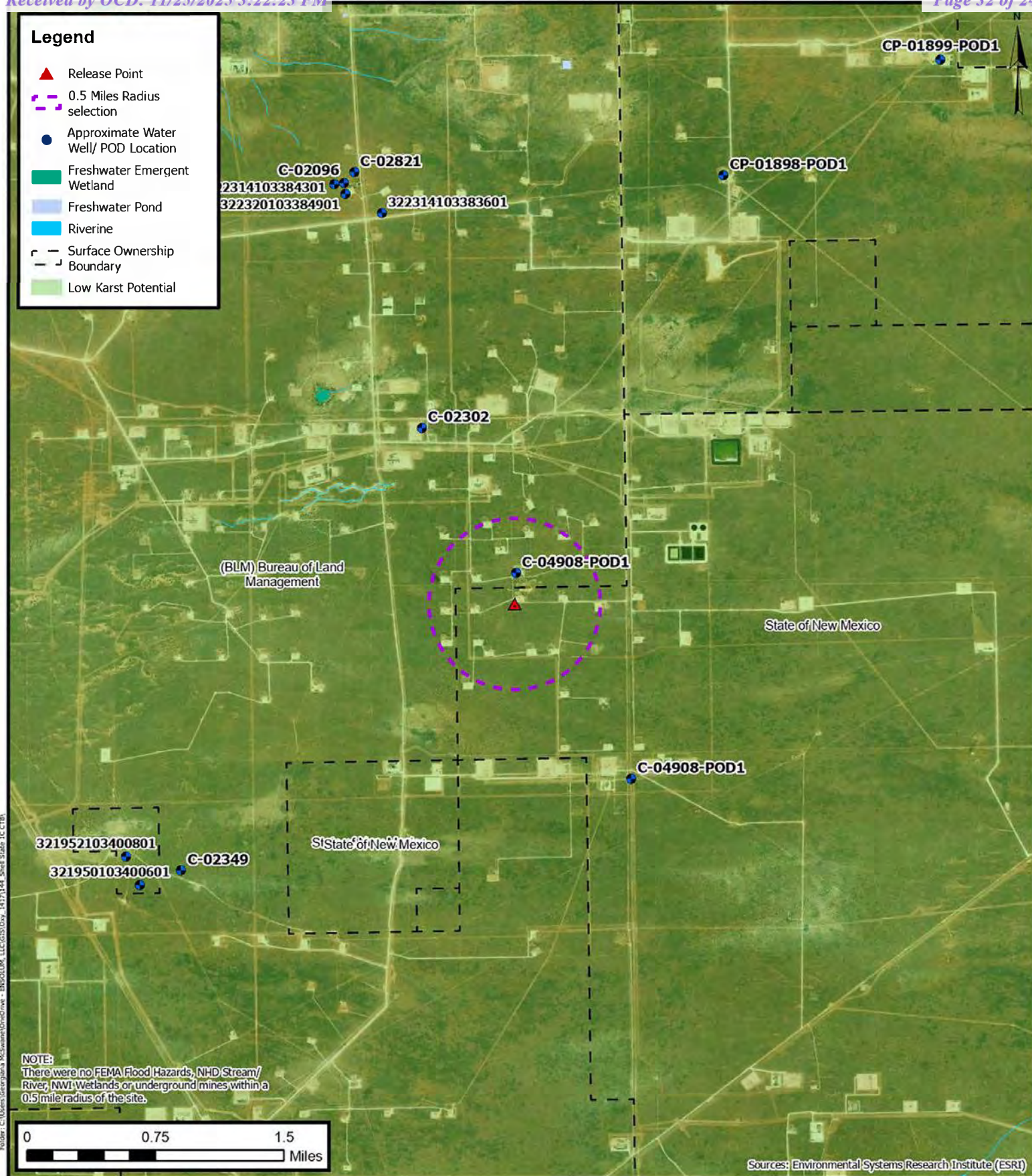
Site Map

Oxy USA Inc.
Shell State 1C CTB
32.354063° N, 103.631131° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417144

FIGURE

3



Closure Criteria Map

Oxy USA Inc.
Shell State 1C CTB
32.354063° N, 103.631131° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417144

FIGURE

4





APPENDIX B

Supporting Documentation

Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, April 19, 2024 10:41 AM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

[**EXTERNAL EMAIL**]

Good morning Kelly,

Thank you for the correspondence. Your 90-day time extension request is approved. Remediation Due date has been updated to July 22, 2024.

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

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

Regards,

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, April 18, 2024 4:34 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, April 18, 2024 3:19 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

Subject: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

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

Good afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 90-day extension for the Shell State 1C CTB (Incident ID: nAPP2402456040). The release occurred on 1/23/2024, and after conducting an initial Site assessment of the area, it was determined that delineation and excavation of impacted and/or waste containing soils was needed.

Because this Site is on State Land, the remediation work needed at the Site requires an ARMs survey through the State Land Office, which is currently pending. Following completion of the ARMs survey, remediation activities will resume.

Thank you,



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

Kelly Lowery

From: Raina Hanley <RHanley@bcarch.org>
Sent: Thursday, June 20, 2024 10:36 AM
To: Kelly Lowery; Beaux Jennings; Wade Burns; Marc Seamands
Subject: Fw: Remediation negative survey Report submission for Ensolum- NMCRIS Activity 155399 (BCA24-1718)

[**EXTERNAL EMAIL**]

From: Curry, Anne R. <acurry@slo.state.nm.us>
Sent: Thursday, June 20, 2024 9:13 AM
To: Raina Hanley <RHanley@bcarch.org>; CRO Info <croinfo@slo.state.nm.us>
Subject: RE: Remediation negative survey Report submission for Ensolum- NMCRIS Activity 155399 (BCA24-1718)

Good morning Raina,


Thank you for the submission of the attached Cover Sheet. Since the proposed remediation activities will take place in an area that has been covered by archaeological survey (NMCRIS 155399), Ensolum is free to move forward with remediation. Please reach out if you have additional questions-



Anne Curry

Archaeologist
Cultural Resources Office
Office: 505.827.1276
Cell: 505.469.5582

New Mexico State Land Office
310 Old Santa Fe Trail

 P.O. Box 1148

Santa Fe, NM 87504-1148

acurry@slo.state.nm.us

nmstatelands.org

.....

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From: Raina Hanley <RHanley@bcarch.org>
Sent: Wednesday, April 24, 2024 4:34 PM
To: CRO Info <croinfo@slo.state.nm.us>
Subject: [EXTERNAL] Remediation negative survey Report submission for Ensolum- NMCRIS Activity 155399 (BCA24-1718)

Good Afternoon,

Attached please find the negative report NIAF for NMCRIS Activity 155399 and the associated cultural resources cover sheet for the following project for Ensolum on behalf of Oxy USA for proposed remediation activities.

- A Class III Cultural Resource Inventory for Oxy USA's Shell State 1C CTB Remediation in Lea County, New Mexico

The NIAF materials were submitted through NMCRIS, but the NIAF form itself was not. Please let me know if you would like to open the project so I can upload the PDF version of the information onto NMCRIS.

Thank you!
Raina

Raina Hanley
Chief Operating Officer

Beaver Creek Archaeology & Environmental
1632 Capitol Way
Bismarck, ND 58501
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental
712 West Quay Avenue
Artesia, NM 88210
Ph: (575) 746-6142 | Fx: (701) 663-5589



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Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number: 155399

(if applicable)

Exhibit Type (select one)

☐ ARMS Inspection/Review - Summarize the results (select one):

- ☐ (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- ☐ (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- ☐ (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

☒ Archaeological Survey

Findings:

☒ **Negative** - No further archaeological review is required.

☐ **Positive** - Have avoidance and protection measures been devised? Select one:

Comments: As no cultural materials, features, or evidence thereof was observed during the pedestrian survey, BCA recommends this project proceed as it is currently planned, as surveyed, photographed, mapped, and described herein, under a finding of No Historic Properties

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant: Beaver Creek Archaeology

Project Proponent (Applicant): Ensolum on behalf Oxy

Project Title/Description: A Class III Cultural Resource Inventory for Oxy USA's Shell State 1C CTB
Remediation in Lea County, New Mexico

Project Location:

County(ies): Lea

PLSS/Section/Township/Range: T22S R32E Sec. 36

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

☐

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, July 19, 2024 3:05 PM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Extension Request - Shell State 1C CTB (Incident ID: nAPP2402456040)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Thanks for the inquiry. Your 90-day time extension request is hereby approved. Remediation Due has been updated to October 21, 2024.

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

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

Regards,

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, July 19, 2024 1:53 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Shell State 1C CTB (Incident ID: nAPP2402456040)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, July 19, 2024 1:50 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

Subject: [EXTERNAL] Extension Request - Shell State 1C CTB (Incident ID: nAPP2402456040)

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

Good afternoon,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 90-day extension for the Shell State 1C CTB (Incident ID: nAPP2402456040). The release occurred on 1/23/2024, and after conducting an initial Site Assessment of the area, it was determined that delineation and excavation of impacted and/or waste containing soils was needed.

This release occurred on NMSLO land, and as such, required an ARMs review prior to beginning any remediation and/or delineation activities per the requirement of NMSLO's ECO department. Ensolum began working in conjunction with Beaver Creek Archeology, a New Mexico permitted consultant, on March 26, 2024 to have this ARMs review completed and reviewed by the NMSLO, and after many months of back and forth with the State, was finally awarded an approval and acknowledgement from NMSLO of the review with no conditions on June 20, 2024.

Initial delineation activities at the Site have been delayed due to scheduling challenges with personnel and contractors. We respectfully ask that the OCD grants us this 90-day extension for future sampling and subsequent reporting.

Thank you and have a great day,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM002379

September 18, 2024

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: COVINGTON A FEDERAL 9
Sec 25, TS 22S, RE 32E
Lea County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time Oxy USA, Inc will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type 1/11 neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN Digitally signed by CRISHA MORGAN
Date: 2024.09.18 09:15:27 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist

Well Name: COVINGTON A FEDERAL	Well Location: T22S / R32E / SEC 25 / SESW / 32.356796 / -103.630494	County or Parish/State: LEA / NM
Well Number: 09	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM2379	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002532036	Operator: OXY USA INCORPORATED	

Notice of Intent

Sundry ID: 2810983

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 09/09/2024

Time Sundry Submitted: 12:52

Date proposed operation will begin: 10/09/2024

Procedure Description: Oxy USA, Inc. (Oxy) requests to advance a soil boring to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring (proposed location 32.356725, -103.630893) will be located on the Oxy Covington A Federal #009 well pad (32.3568, -103.6305) north of the Shell State 1C CTB (Incident ID:nAPP2402456040) Site (GPS Coordinates 32.354063, -103.631131) on BLM surface. The soil boring will be left open for approximately 72 hours to allow for the slow infill of groundwater, if any. Following the 72 hour waiting period, Oxy will assess the boring utilizing a water level meter to confirm the presence or absence and depth to groundwater in the soil boring. Following the 72 hour waiting period, the soil boring will be backfilled following the approved New Mexico Office of the State Engineer plugging procedures. A site map and kmz depicting the location of the Site and the proposed soil boring location are included with this Form 3160-5.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

DTW_Proposed_Boring_Map_20240909124343.pdf

Form_3160_5__Shell_State_1C_CTB_20240909124343.pdf

Shell_State_1C_CTB_DTW_Proposed_Boring_20240909124343.kmz

Well Number: 09

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM2379

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002532036

Operator: OXY USA INCORPORATED

Conditions of Approval**Specialist Review**

20240918_COVINGTON_A_FEDERAL_9_St_Engineer_Office_drilling_approval_20240918091613.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: WADE DITTRICH**Signed on:** SEP 09, 2024 12:45 PM**Name:** OXY USA INCORPORATED**Title:** Environmental Advisor**Street Address:** 5 GREENWAY PLAZA SUITE 110**City:** HOUSTON**State:** TX**Phone:** (575) 390-2828**Email address:** WADE_DITTRICH@OXY.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****BLM POC Name:** CRISHA A MORGAN**BLM POC Title:** Environmental Protection Specialist**BLM POC Phone:** 5752345987**BLM POC Email Address:** camorgan@blm.gov**Disposition:** Approved**Disposition Date:** 09/18/2024**Signature:** CRISHA A. MORGAN

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 770626
File Nbr: C 04908

Nov. 08, 2024

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

Greetings:

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 770626
File Nbr: C 04908

Nov. 08, 2024

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

Greetings:

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

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

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

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

Sincerely,

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

Vanessa Clements
(575) 622-6521

Enclosure

explore

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

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

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

ACKNOWLEDGEMENT

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

Print Name(s)

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

Kelly Lowery
Applicant Signature

Wade Dittrich
Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:
☒ approved ☐ partially approved ☐ denied

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

Witness my hand and seal this 8th day of November 2024, for the State Engineer,

Elizabeth K. Anderson, P.E.

State Engineer

By: K. Parekh
Signature

Kashyap Parekh

Print

Title:
Print

Water Resources Manager I



FOR OSE INTERNAL USE

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

File No.: C-4908

Trm No.: 770626

Page 3 of 3

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

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

Trn Desc: C 04908 POD1

File Number: C 04908

Trn Number: 770626

page: 1

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04908 POD1 must be completed and the Well Log filed on or before 11/08/2025.

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

ACTION OF STATE ENGINEER

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

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

Witness my hand and seal this 08 day of Nov A.D., 2024

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

By:

K. Parekh
KASHYAP PAREKH



Trn Desc: C 04908 POD1

File Number: C 04908

Trn Number: 770626

page: 3

MICHELLE LUJAN GRISHAM
GOVERNOR



ELIZABETH K. ANDERSON, P.E.
STATE ENGINEER

State of New Mexico
Office of the State Engineer

DISTRICT 2 OFFICE

October 31, 2024

Oxy USA Inc.
P.O. Box 4294
Denver, CO 80206

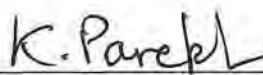
RE: Well Plugging Plan of Operations for well No. C-4908-POD1

Greetings:

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

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

Sincerely,


Kashyap Parekh
Water Resources Manager I

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

WWW.OSE.STATE.NM.GOV



Office of the State Engineer State of New Mexico

DISTRICT 2 OFFICE

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

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

Permittee: Oxy USA Inc.
NMOSE Permit Number: C-4908-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4908-POD1	6.0 (Borehole)	110.0	Unknown	32° 21' 24.2094"	103° 37' 51.2034"

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

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volume of sealant required for abandonment is approximately 161.5 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110.0 feet below ground surface (b.g.s.).
3. A Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
4. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner

- that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.
5. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
 6. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
 7. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
 8. NMOSE witnessing of the plugging of the soil boring hole will not be required.
 9. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
 10. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

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

Witness my hand and seal this 31st day of October 2024

Elizabeth K. Anderson, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I





WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email ambg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: C-4908-POD1

Name of well owner: Oxy USA Inc.

Mailing address: PO BOX 4294 County: Harris

City: Houston State: Texas Zip code: 77210

Phone number: 575-390-2828 E-mail: wade_ditrich@oxy.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: West Texas Water Well Service

New Mexico Well Driller License No.: WD-1184 Expiration Date: 10/31/2025

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 21 min, 24.2094 sec
Longitude: -103 deg, 37 min, 51.2034 sec, NAD 83

2) Reason(s) for plugging well(s):

Investigation soil boring to determine groundwater level.

3) Was well used for any type of monitoring program? N/A If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? N/A If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: Unknown feet below land surface / feet above land surface (circle one)

6) Depth of the well: 110 feet

- 7) Inside diameter of innermost casing: N/A inches.
- 8) Casing material: N/A
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: _____
☐ a well screen or perforated pipe, state the screened interval(s): _____
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? No If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

The soil boring will be plugged tremie from bottom to a slurry of Portland TYPE I/II Neat cement in lifts.
- 2) Will well head be cut-off below land surface after plugging? N/A

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 100
- 4) Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
X mixed on site

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

N/A

- 8) Additional notes and calculations:

N/A

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

Volumes calculated on an up to an approximate 6" boring.

VIII. SIGNATURE:

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

Kelly Lowery

Signature of Applicant

10/21/2024

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

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

October

2024

Witness my hand and official seal this

31st

day of

Elizabeth K. Anderson P.E.

., New Mexico State Engineer

By: *K. Parekh*
 Kashyap Parekh

Water Resources Manager I

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



TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	100
Theoretical volume of grout required per interval (gallons)	N/A	N/A	50
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch-mixed and delivered?	N/A		
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

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

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant or grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	52
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug



C-4908-POD1 (SB-1)

ENSOLUM

PROJECT NUMBER 03B1417144	DRILLING DATE 12/09/2024 - 12/09/2024	COORDINATES 32.354063, -103.631131
PROJECT NAME Shell State 1C CTB	TOTAL DEPTH 110' BGS	COORD SYS N/A
CLIENT Oxy USA, Inc	DIAMETER 6.25"	COMPLETION Plugged after 72 hrs
ADDRESS PO Box 4294 Houston, Texas 77210	CASING Temporary 2" PVC.	SURFACE ELEVATION N/A
LICENCE NO. WD-1184	SCREEN 10'	WELL TOC N/A

COMMENTS Temporary casing removed after 72 hours. The borehole was backfilled with cuttings (3' - 110') and plugged with Quikrete (0 - 3') 72 hours after drilling. No water was encountered.

LOGGED BY Nicolas Christakos

CHECKED BY Kelly Lowery

Depth (ft)	Water	Well Diagram	Graphic Log	Material Description
10				Gravelly sand, light brown, some gravel, coarse to large gravel, non-cohesive, non-plastic, non-uniform, dry, no odor
20				Gravelly sand, reddish - grey, few gravel, fine to large gravel, non-cohesive, non-plastic, non-uniform, dry, no odor
30				Gravelly sand, reddish - grey, few gravel, fine to large gravel, non-cohesive, non-plastic, non-uniform, dry, no odor
40				Gravelly sand, reddish-grey, trace gravel, fine to little gravel, non-cohesive, non-plastic, non-uniform, dry, no odor
50				Sand, reddish-brown, fine to very fine, uniform, non-cohesive, non-plastic, dry, no odor
60				Gravelly sand, reddish-brown, trace gravel, fine to very fine, non-uniform, non-cohesive, non-plastic, dry, no odor
70				Sand, reddish-brown, very fine to fine, uniform, non-cohesive, non-plastic, no odor, dry
80				Clayey sand, reddish-brown, very fine to fine, some clay aggregates, oxidized, non-uniform, non-cohesive, non plastic, no odor, dry
90				Clayey sand, reddish-brown, very fine - fine, few clay aggregates, oxidized, non-uniform, non-cohesive, non-plastic, dry, no odor
100				Sandy clay, reddish-brown, trace gravel, coarse - small gravel, loose clay aggregates, non-uniform, non-cohesive, non-plastic, dry, no odor
110				Gravelly clay, reddish-brown, coarse to large gravel, non-uniform, non-cohesive, non-plastic, dry, no odor

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

Page 1 of 1

Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, October 18, 2024 4:03 PM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: Re: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Thank you for the correspondence. Based on our telephone conversation, your 90-day time extension is approved. Remediation Due date has been updated to January 16, 2025.

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

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

Regards,

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, October 18, 2024 11:47 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, October 18, 2024 11:33 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

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

Good afternoon,

On behalf of Oxy USA, Inc., Ensolum, LLC would like to request a 90-day extension for the Shell State 1C CTB (Incident ID: nAPP2402456040). Excavation and remediation activities are currently on-going at the Site to delineate both vertically and horizontally. Additionally, we are currently waiting on approval from the New Mexico Office of State Engineer to drill a depth-to-water (DTW) boring to confirm the presence or absence of groundwater at the Site. We respectfully ask that the OCD grants us this 90-day extension for future sampling and subsequent reporting.

Thank you and have a great day,



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

Kelly Lowery

From: Dittrich, John W <Wade_Dittrich@oxy.com>
Sent: Monday, January 27, 2025 3:02 PM
To: Kelly Lowery; Beaux Jennings
Cc: Hadlie Green; Georgiana McSwane
Subject: Fw: The Oil Conservation Division (OCD) has approved the application, Application ID: 421823

[**EXTERNAL EMAIL**]

Shell St. 1C CTB-1/23/2024

Wade Dittrich

Environmental Advisor

New Mexico

575-390-2828

wade_dittrich@oxy.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, January 27, 2025 11:43 AM
To: Dittrich, John W <wade_dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 421823

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#) nAPP2402456040, with the following conditions:

- Remediation plan is approved as written except with the following condition; 1. Variance request increasing the sampling frequency to 400 square feet (ft.2) per one (1) five-point composite (5pc) from the excavation floor and 200 ft.2 from the sidewalls is approved. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, OXY must collect a minimum of one (1) 5pc from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 3. OXY has 90-days (April 28, 2025) to submit to OCD its appropriate or final remediation closure report.

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,

Nelson Velez

Environmental Specialist - Advanced

505-469-6146

Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Kelly Lowery

From: Knight, Tami C. <tknight@nmslo.gov>
Sent: Wednesday, January 29, 2025 7:07 AM
To: Kelly Lowery
Cc: Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC); Beaux Jennings
Subject: (Remediation Plan) Oxy USA, Inc. - Shell State 1C CTB- nAPP2402456040) - 1/23/24 - Approved w/ Conditions
Attachments: Sand Reclaim Tips.pdf

[**EXTERNAL EMAIL**]

Kelly

Documentation of proposed remediation actions for the subject release incident was received from your office on January 16, 2025. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the remediation plan with the following conditions:

1. Note, site delineation plans are required to be submitted to ECO for review where site delineation and remediation closure will not meet the 90 day NMOCD closure window. This is especially a sensitive requirement where earth disturbance will occur off pad.
2. Due to the sensitive soils, please keep all traffic in and out of the excavation area to a minimum and use one point of access into the remediation area.
3. Backfill material must match natural soil horizons. Due to the sensitive soil, ECO recommends amending the backfill with organics; see attached.
4. Submit a reclamation plan to eco@nmslo.gov.
5. NMSLO maps and Wetland maps document a pond immediately north of the subject facility. Due to the distance from the release this does not appear to alter closure criteria, but this should be noted for future projects at this facility.



Respond to this email that you understand and agree to the conditions of approval.

Please submit the remediation closure report to eco@nmslo.gov.

Lessee and/or their contractor are responsible for ensuring the project manager and field personnel performing the work follow the approved work plan.



Environmental Compliance Office
 Surface Resources Division
eco@nmslo.gov
nmstatelands.org



.....

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From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, January 16, 2025 4:40 PM
To: SLO Spills <spills@nmslo.gov>; SLO Spills <spills@nmslo.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] (Remediation Work Plan and Variance Request) Oxy USA, Inc. - Shell State 1C CTB (Facility ID: fAPP2127031415/Incident #: nAPP2402456040) - Incident Date: January 23, 2024

Good afternoon,

The *Remediation Work Plan and Variance Request* for Shell State 1C CTB (Facility ID: fAPP2127031415/Incident #: nAPP2402456040) has been uploaded to the NMOCD Online Portal with PO#: T9LJJ-250116-C-1410 on 01/16/2025.

Please let me know if you have any questions.

Thank you,



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

NMSLO Seed Mix

Deep Sand (DS)

1.1 BLOW SAND SITES REVEGETATION PLAN (BS)

Use this Revegetation Plan with the following ESD's:

CP2 – Sandy Plains, Sandhills, Deep Sand, Shallow Plains

HP3 – Loamy Sand, Sandy Plains, Sandhills, Deep Sand

SD3 – Loamy Sand, Deep Sand, Sandhills, Salt Meadow

Soil Texture: Fine Sand, Sand, Course Sand

Revegetation Procedures:

I. For flat or gently sloping areas with slopes less than or equal to 3H:1V:

1. **Soil Amendments:** Apply composted manure or similar at the rate of 30.0 air dry tons/acre.
2. **Fertilize:** Type 2
3. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
4. **Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:**
 - a. Scarify
 - b. Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding).
5. **Drill Seed** – use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal.
6. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
7. **Crimp**
8. **Tackify** – tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish.
9. **Wind Fence** – Install wind fence.



NMSLO Seed Mix**Deep Sand (DS)****DEEP SAND (DS) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	4.0	F
Sideoats grama	Vaughn, El Reno	4.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Plains bristlegrass	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	2.0	S
Blue grama	Lovington	1.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	0.5	D
Prairie Conflower	VNS, Southern	0.5	D
Total PLS/acre		17	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.





APPENDIX C

Photographic Documentation

Project: Shell State 1C CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2402456040



View of release extent prior to remediation activities, facing southeast (January 25, 2024).

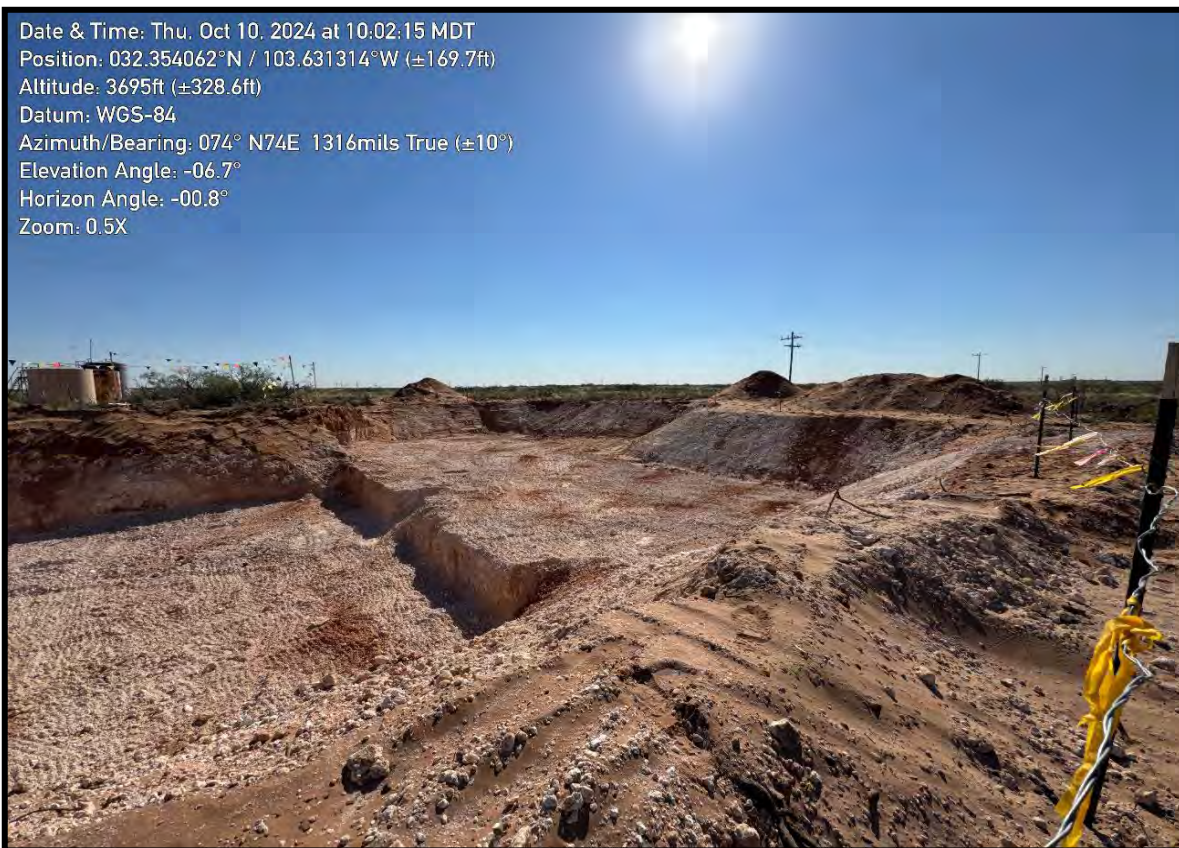


View of release extent prior to remediation activities, facing southeast (January 25, 2024).

Project: Shell State 1C CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2402456040



Date & Time: Thu, Oct 10, 2024 at 10:02:15 MDT
Position: 032.354062°N / 103.631314°W (± 169.7 ft)
Altitude: 3695ft (± 328.6 ft)
Datum: WGS-84
Azimuth/Bearing: 074° N74E 1316mils True ($\pm 10^\circ$)
Elevation Angle: -06.7°
Horizon Angle: -00.8°
Zoom: 0.5X



View of release extent during remediation activities, facing northeast (October 10, 2024).

Date & Time: Thu, Oct 10, 2024 at 10:02:18 MDT
Position: 032.353983°N / 103.631301°W (± 23.4 ft)
Altitude: 3741ft (± 43.7 ft)
Datum: WGS-84
Azimuth/Bearing: 026° N26E 0462mils True ($\pm 10^\circ$)
Elevation Angle: -16.3°
Horizon Angle: +00.5°
Zoom: 0.5X



View of release extent during remediation activities, facing northeast (October 10, 2024).

Project: Shell State 1C CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2402456040



View of release extent during remediation activities, facing northeast (January 24, 2025).

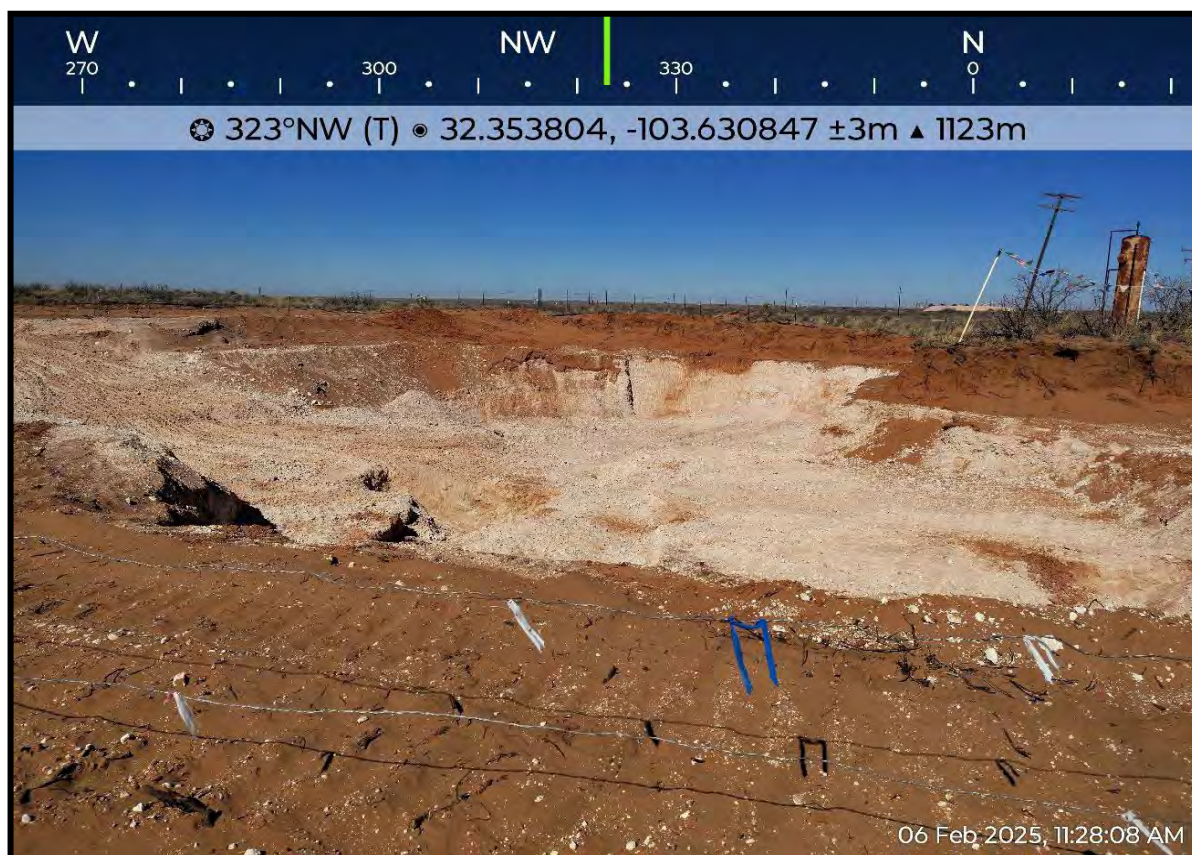


View of release extent during remediation activities, facing east (January 24, 2025).

Project: Shell State 1C CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2402456040



View of release extent during remediation activities, facing west (February 6, 2025).



View of release extent during remediation activities, facing northwest (February 6, 2025).

Project: Shell State 1C CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2402456040



View of release extent post backfill activities, facing north (March 3, 2025).



View of release extent post backfill activities, facing west (March 3, 2025).



APPENDIX D

Table(s)

TABLE 1
FLOOR & SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (REMEDIATION ZONE)

Shell State 1C CTB
Oxy USA, Inc.
Lea County, New Mexico
Ensolum Project No. 03B1417144

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+DRO) (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)			10	NE	NE	NE	50	1,000	NE	2,500	20,000
Composite Floor Soil Sample Analytical Results											
FS01	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	33.5	<10.0	33.5	39,200
	01/22/2025	17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,000
FS02	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	78.4	18.2	96.6	45,600
	01/22/2025	17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,600
FS03	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	17.5	<10.0	17.5	44,000
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	992
FS04	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48,800
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,000
FS05	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	47.4	<10.0	47.4	48,000
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,880
FS06	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	11.1	<10.0	11.1	43,200
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	528
FS07	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	14.4	<10.0	14.4	46,400
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	15,800
FS08	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	175	42.7	218	44,000
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,400
FS09	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,530
FS10	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	65,600
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11,900
FS11	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	125	40.9	166	64,800
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,000
FS12	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	20.6	<10.0	20.6	52,000
	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,930
FS13	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	110	24.0	134	38,400
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,000
FS14	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	97.7	18.6	116	54,400
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11,100
FS15	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	142	40.4	182	42,400
	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,500
FS16	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	526	144	670	24,000
	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	20,600
	02/06/2025	18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,000
FS17	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	50.1	19.0	69.1	44,800
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	18,800

TABLE 1
FLOOR & SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (REMEDIATION ZONE)
 Shell State 1C CTB
 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417144

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+DRO) (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)			10	NE	NE	NE	50	1,000	NE	2,500	20,000
FS18	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	21,200
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,200
FS19	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	60,800
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	10.6	<10.0	10.6	6,880
FS20	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	14.1	<10.0	14.1	65,600
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	17,000
FS21	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	85.9	33.1	119	51,200
	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16,600
FS22	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	35,200
	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	18,000
FS23	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,130
FS24	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	864
FS25	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	160
FS26	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	19,200
FS27	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	216	65.9	282	32,400
	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	7,680
FS28	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,600
FS29	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	269	84.9	354	37,200
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11,800
FS30	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	73.9	29.2	103	29,200
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,920
FS31	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	56,000
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,100
FS32	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	14,000
	01/24/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,640
FS33	01/24/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,080



TABLE 1

FLOOR & SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (REMEDIATION ZONE)

Shell State 1C CTB

Oxy USA, Inc.

Lea County, New Mexico

Ensolum Project No. 03B1417144

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+DRO) (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)			10	NE	NE	NE	50	1,000	NE	2,500	20,000
Composite Sidewall Soil Sample Analytical Results											
SW01	10/10/2024	4 - 9	<0.050	<0.050	<0.050	<0.150	<0.300	50.0	<10.0	50.0	76,800
	01/24/2025	4 - 15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,090
SW02	10/10/2024	4 - 9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	9,600
SW03	10/10/2024	4 - 9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,660
SW04	10/10/2024	4 - 9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	864
SW05	10/10/2024	4 - 9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	272
SW06	10/10/2024	4 - 9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,800
SW07	10/10/2024	4 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	328	104	432	8,000
SW08	10/10/2024	4 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	65.7	11.4	77.1	17,800
SW09	10/10/2024	4 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	40,000
	01/23/2025	4 - 15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,000
SW10	10/10/2024	4 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	90,600
	01/23/2025	4 - 15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,000
SW11	10/10/2024	4 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	26,400
	01/23/2025	4 - 15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,700
SW12	10/10/2024	4 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32,000
	01/23/2025	4 - 15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,300
SW13*	10/10/2024	9 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	64,000
SW14*	10/10/2024	9 - 13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	29,200
SW16	02/06/2025	13 - 18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,080

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)

Additional Excavation and/or Re-Sample

*: Sample Location Removed During Additional Excavation Activities

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



TABLE 2
SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (RECLAMATION ZONE)

Shell State 1C CTB
Oxy USA, Inc.
Lea County, New Mexico
Ensolum Project No. 03B1417144

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)
Composite Sidewall Soil Sample Analytical Results												
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)	SW01	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	176
	SW02	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,520
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
	SW03	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	26,400
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
	SW04	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	7,600
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
	SW05	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,200
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
	SW06	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	832
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
	SW07	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0	48,800
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	240
	SW08	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.8	<10.0	8,660
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
	SW09	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	68,000
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
	SW10	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	22,400
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
	SW11	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,800
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
	SW12	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	40,000
		01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	256

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



TABLE 3
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS

DR PI Topsoil

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)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Background Soil Sample Analytical Result												
DR PI Topsoil	02/06/2025	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0

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



TABLE 4
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
Mills Ranch 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)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Background Soil Sample Analytical Result												
Mills Ranch Pit	09/30/2024	NA	<0.050	0.060	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

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 E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

October 17, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 13:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 01 13' (H246214-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39200	16.0	10/16/2024	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	33.5	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 02 13' (H246214-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	45600	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	78.4	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	18.2	10.0	10/15/2024	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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 03 13' (H246214-03)

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	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	44000	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	17.5	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 04 13' (H246214-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48800	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 05 13' (H246214-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48000	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	47.4	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 06 13' (H246214-06)

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	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	43200	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	11.1	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 07 13' (H246214-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	46400	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	14.4	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 08 13' (H246214-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	44000	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	175	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	42.7	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 09 13' (H246214-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6530	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 10 13' (H246214-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 11 13' (H246214-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64800	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	125	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	40.9	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 12 13' (H246214-12)

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	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	52000	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	20.6	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 13 9' (H246214-13)

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	10/16/2024	ND	2.03	102	2.00	3.40		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38400	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	110	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	24.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 14 9' (H246214-14)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	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	54400	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	97.7	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	18.6	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 15 9' (H246214-15)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	42400	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	142	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	40.4	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 16 9' (H246214-16)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24000	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	526	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	144	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 17 9' (H246214-17)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	44800	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	50.1	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	19.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 18 9' (H246214-18)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	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	21200	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 19 9' (H246214-19)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	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	60800	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 20 9' (H246214-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTX	<0.300	0.300	10/16/2024	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	65600	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	14.1	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 21 9' (H246214-21)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	51200	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	85.9	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	33.1	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 22 9' (H246214-22)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	35200	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 23 9' (H246214-23)

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	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 24 9' (H246214-24)

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	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 25 9' (H246214-25)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 26 9' (H246214-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 27 9' (H246214-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32400	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	216	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	65.9	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 28 9' (H246214-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13600	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 29 9' (H246214-29)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTX	<0.300	0.300	10/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	37200	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	269	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	84.9	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 30 9' (H246214-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	73.9	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	29.2	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 31 9' (H246214-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	56000	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: FS 32 9' (H246214-32)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14000	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 01 0-4' (H246214-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356		
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 01 4-9' (H246214-34)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	76800	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	50.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 117 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 02 0-4' (H246214-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 116 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 02 4-9' (H246214-36)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 03 0-4' (H246214-37)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	26400	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 03 4-9' (H246214-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	10/16/2024	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	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 04 0-4' (H246214-39)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	10/16/2024	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	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 04 4-9' (H246214-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	864	16.0	10/16/2024	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	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 124 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 05 0-4' (H246214-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	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	
Chloride	2200	16.0	10/15/2024	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 05 4-9' (H246214-42)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 06 0-4' (H246214-43)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 06 4-9' (H246214-44)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 07 0-4' (H246214-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	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	
Chloride	48800	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	10.4	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 07 4-13' (H246214-46)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	8000	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	328	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	104	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 08 0-4' (H246214-47)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	30.8	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 08 4-13' (H246214-48)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	17800	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	65.7	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	11.4	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 09 0-4' (H246214-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	68000	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 09 4-13' (H246214-50)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	10/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 10 0-4' (H246214-51)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	10/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 10 4-13' (H246214-52)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	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	
Chloride	90600	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 11 0-4' (H246214-53)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34		
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	8800	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 11 4-13' (H246214-54)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80		
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79		
Total BTX	<0.300	0.300	10/16/2024	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	26400	16.0	10/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 12 0-4' (H246214-55)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	10/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 12 4-13' (H246214-56)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80		
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79		
Total BTEX	<0.300	0.300	10/16/2024	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	32000	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 13 9-13' (H246214-57)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	64000	16.0	10/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

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

Sample ID: SW 14 9-13' (H246214-58)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80		
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79		
Total BTEX	<0.300	0.300	10/16/2024	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	
Chloride	29200	16.0	10/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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: Kelly Lowery

Address: 601 N Marientfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 214-733-3165 Fax #:

Project #: 03B1417144 Project Owner:

Project Name: Shell State 1C CTB

Project Location: Lea County, NM

Sampler Name: Tabitha Guadian/Azuka Udeh

BILL TO

P.O. #: Oxy, USA, Inc.

Attn: Wade Dittich

Address:

City:

State: Zip:

Phone #

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			ACID/BASE:	ICE / COOL	OTHER :	BTEX 8021B	TPH 8015M	Chlorides 4500
#246204	ES01	13'	C	1	X						10/10/24	1758	X	X	X			
	ES02	13'	C	1	X						10/10/24	1758	X	X	X			
	ES03	13'	C	1	X						10/10/24	1758	X	X	X			
	ES04	13'	C	1	X						10/10/24	1758	X	X	X			
	ES05	13'	C	1	X						10/10/24	1758	X	X	X			
	ES06	13'	C	1	X						10/10/24	1758	X	X	X			
	ES07	13'	C	1	X						10/10/24	1758	X	X	X			
	ES08	13'	C	1	X						10/10/24	1758	X	X	X			
	ES09	13'	C	1	X						10/10/24	1758	X	X	X			
	ES10	13'	C	1	X						10/10/24	1758	X	X	X			

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Relinquished By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

Relinquished By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

Delivered By: (Circle One)

Observed Temp. °C: 0.8°C

Corrected Temp. °C: 0.8°C

Sample Condition

Cool Intact

Yes

No

Checked By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

Sampler - UPS - Bus - Other:

Observed Temp. °C: 0.8°C

Corrected Temp. °C: 0.8°C

Sample Condition

Cool Intact

Yes

No

Checked By:

Date: 10/11/24

Time: 1740

Received By:

Date: 10/11/24

Time: 1740

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



2 of 2

Page 62 of 66



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

306



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

406

Company Name: Ensolum, LLC

Project Manager: Kelly Lowery

Address: 601 N Marientfield Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 214-733-3165

Fax #:

Project #: 03B1417144

Project Owner:

Project Name: Shell State 1C CTB

Project Location: Lea County, NM

Sampler Name: Tabitha Guadian/Azuka Udeh

FOR LAB USE ONLY

BILL TO

P.O. #: Oxy, USA, Inc.

Attn: Wade Dittich

Address:

City:

State: Zip:

Phone #

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTX 8021B	TPH 8015M	Chlorides 4500	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:
H2416214	F531	9'	C	1	X							10/10/24	1208	X	X	X
	F532	9'	C	1	X							10/16/24	1210	X	X	X
	F533	0-4'	C	1	X							10/16/24	1072	X	X	X
	F534	4-9'	C	1	X							10/16/24	1054	X	X	X
	F535	0-4'	C	1	X							10/16/24	1058	X	X	X
	F536	4-9'	C	1	X							10/16/24	1102	X	X	X
	F537	0-4'	C	1	X							10/16/24	1104	X	X	X
	F538	4-9'	C	1	X							10/16/24	1106	X	X	X
	F539	0-4'	C	1	X							10/16/24	1106	X	X	X
	F540	4-9'	C	1	X							10/16/24	1106	X	X	X

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Relinquished By:

Date: 10/11/24

Time: 1940

Received By: [Signature]

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

Relinquished By:

Date: 10/11/24

Time: 1940

Received By: [Signature]

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 10/11/24

Time: 1940

Received By: [Signature]

REMARKS: 10/16/24 10/16/24

Delivered By: (circle One)

Observed Temp. °C

0.8

Sample Condition

Checked By: [Signature]

Standard

Thermometer ID

Correction Factor

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

0.2

Sample Condition

Checked By: [Signature]

Standard

Thermometer ID

Correction Factor

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Reinquished By: _____	Date: _____	Received By: _____

Relinquished By: <i>Neil</i>		Date: <i>10/11/24</i>		Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By: <i>[Signature]</i>		Time: <i>1200</i>				All Results are emailed. Please provide Email address:	
		Date: <i>10-11-24</i>		Received By: <i>[Signature]</i>		<i>KIDNEY FUNCTION, Etc.</i>	
		Time: <i>1555</i>				REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C: <i>0.8</i>		Sample Condition		CHECKED BY: <i>[Signature]</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <i>0.2</i>		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		(Initials)	
		Turnaround Time: <i>#140</i>		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Thermometer ID #113		Correction Factor <i>-0.10</i>		Observed Temp. °C	
						Corrected Temp. °C	

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6046

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST			
Project Manager: Kelly Lowery				P.O. #: Oxy, USA, Inc.							
Address: 601 N Marlenfeld Street, Suite 400				Attn: Wade Dittich							
City: Midland				State: TX				Zip: 79701			
Phone #: 214-733-3165				Fax #:							
Project #: 0381417144				Project Owner:							
Project Name: Shell State 1C CTB				City:							
Project Location: Lea County, NM				State:				Zip:			
Sampler Name: Tabitha Guadian/Azuka Udeh				Phone #							
FOR LAB USE ONLY				Fax #:							

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	BTX 8021B	TPH 8015M	Chlorides 4500								
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :														ACID/BASE:	ICE / COOL
H246214	w/d	0-4'	C		X								10/10/24	1159	X	X	X								
57	w/d	4-13'	C		X								10/10/24	1154	X	X	X								
52	w/d	0-4'	C		X								10/10/24	1153	X	X	X								
53	w/l	4-13'	C		X								10/10/24	1156	X	X	X								
54	w/l	0-4'	C		X								10/10/24	1157	X	X	X								
55	w/l	4-13'	C		X								10/10/24	1158	X	X	X								
56	w/l	q-13'	C		X								10/10/24	1159	X	X	X								
57	w/l	q-13'	C		X								10/10/24	1200	X	X	X								
58	w/d		C																						

NOTE: 76 10/10/24

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Relinquished By:	Date: 10/11/24	Received By: [Signature]
Relinquished By:	Date: 10/11/24	Received By: [Signature]
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp.: °C 0.81 Corrected Temp.: °C 0.21	Sample Condition: <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
CHECKED BY: [Signature] (Initials)		
Turnaround Time: Standard Rush #140		
Thermometer ID: 4113		
Correction Factor: 0.00		
Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Bacteria Intact <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
Corrected Temp.: °C		

Verbal Result: ☐ Yes ☐ No Add'l Phone #: _____
All Results are emailed. Please provide Email address: _____
REMARKS: Klover REACTUM, COM

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

January 28, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/24/25 13:11.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 01 17' (H250446-01)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	4000	16.0	01/28/2025	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	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 02 17' (H250446-02)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	01/28/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 03 15' (H250446-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 04 15' (H250446-04)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 05 15' (H250446-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 06 15' (H250446-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTX	<0.300	0.300	01/27/2025	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	
Chloride	528	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 07 15' (H250446-07)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	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	
Chloride	15800	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 08 15' (H250446-08)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13400	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 10 15' (H250446-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11900	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 11 15' (H250446-10)

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	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	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	
Chloride	10000	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 12 15' (H250446-11)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8930	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 13 11' (H250446-12)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	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	
Chloride	10000	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 14 11' (H250446-13)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	11100	16.0	01/28/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 15 13' (H250446-14)

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	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	13500	16.0	01/28/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 16 13' (H250446-15)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20600	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 17 11' (H250446-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTX	<0.300	0.300	01/27/2025	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	
Chloride	18800	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 18 11' (H250446-17)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	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	
Chloride	10200	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 19 11' (H250446-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTX	<0.300	0.300	01/27/2025	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	
Chloride	6880	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	10.6	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 20 11' (H250446-19)

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	01/27/2025	ND	2.16	108	2.00	2.08		
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17000	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 21 13' (H250446-20)

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	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	16600	16.0	01/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 22 13' (H250446-21)

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	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18000	16.0	01/28/2025	ND	400	100	400	7.69	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	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 27 13' (H250446-22)

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	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7680	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 118 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 29 11' (H250446-23)

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	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11800	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 30 11' (H250446-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 31 11' (H250446-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 32 15' (H250446-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	01/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 33 15' (H250446-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 01 4-15' (H250446-28)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 02 0-4' (H250446-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 03 0-4' (H250446-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 04 0-4' (H250446-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64		
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 05 0-4' (H250446-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 115 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 06 0-4' (H250446-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 07 0-4' (H250446-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 08 0-4' (H250446-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 09 0-4' (H250446-36)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 10 0-4' (H250446-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 11 0-4' (H250446-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 12 0-4' (H250446-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 09 4-15' (H250446-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	01/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 10 4-15' (H250446-41)

BTEx 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	01/27/2025	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 11 4-15' (H250446-42)

BTEx 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	10700	16.0	01/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2025
 Reported: 01/28/2025
 Project Name: SHELL STATE 1C CTB
 Project Number: 03B1417144
 Project Location: OXY - LEA CO NM

Sampling Date: 01/23/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 12 4-15' (H250446-43)

BTX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27		
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	13300	16.0	01/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

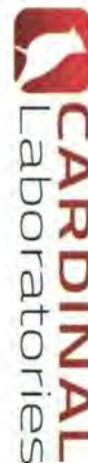
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 5

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2015

Company Name: Ensolum, LLC										P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: Kelly Lowery										Company: Oxy													
Address: 601 N. Mainfield St. STE 400										Attn: WADDE D. FRIEL													
City: Midland State: TX Zip: 79701										Address:													
Phone #: 214-733-3165 Email: klowery@ensolum.com										City:													
Project #: 03B1417144 Project Owner: OXY										State:													
Project Name: Shell Start 1C CTB										Zip:													
Project Location: Leg Co N/A										Phone #:													
Sample Name: Shale D. 114										Email:													
FOR LAB USE ONLY										PRESERV.		SAMPLING											
Lab I.D.										Sample Depth (feet)		(G)RAB OR (C)OMP		# CONTAINERS									
												GROUNDWATER		WASTEWATER									
												SOIL		OIL									
												SLUDGE		OTHER:									
												ACID/BASE		ICE / COOL									
												OTHER		DATE		TIME							
H80444										15		X		1-22-25		1205		TPH 2015		BTEx 20216		Chlorides 4500	
10										15-12		X		1-22-25		1207		X					
11										15-13		X		1-24-25		956		X					
12										15-14		X		1-24-25		952		X					
13										15-15		X		1-24-25		554		X					
14										15-16		X		1-24-25		932		X					
15										15-17		X		1-24-25		932		X					
16										15-18		X		1-24-25		930		X					
17										15-19		X		1-24-25		930		X					
18										15-20		X		1-24-25		930		X					
19																							

PLASTIC NOTE: Liability and Caret's exclusive remedy for any claim arising out of or related to the performance of services hereunder shall be limited to the amount paid by the client for the analysis.

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

In no event shall Client be liable for consequential damages, including without limitation, business interruption, 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.

Capital expenses of vehicles and other equipment used in the performance of services hereunder shall be the responsibility of the client.

Relinquished By:	Date: 08-25-25	Received By: Spectrologues	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 13-11	Received By:	All Results are emailed. Please provide Email address: klowery@ensolum.com / Remington@ensolum.com	
Relinquished By:	Date:	Received By:	REMARKS: Paykey/AE/NONE:	
Relinquished By:	Date:	Received By:	REMARKS: 3 day	

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Thermometer ID	Correction Factor	Thermometer ID	Correction Factor
Sampler - UPS - Bus - Other:	1.52	1.52	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Hot	SR	413	-0.10	413	-0.10

Thermometer ID	Correction Factor	Thermometer ID	Correction Factor
413	-0.10	413	-0.10

Thermometer ID	Correction Factor	Thermometer ID	Correction Factor
413	-0.10	413	-0.10



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5 of 5

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Kelly Lowery		City: Midland		State: TX Zip: 79701		Company: OKY	
Address: 601 N. Marland St. STE 400		City: Midland		State: TX Zip: 79701		Attn: Wade D. Fritzel	
Phone #: 214-733-3165		Email: Klowery@ensolum.com		Address:		City:	
Project #: 0381417144		Project Owner: OKY		State:		Zip:	
Project Name: Skelton Street LC CTB		Project Location: Ken Co NM		Phone #:		Email:	
Sample Name: Skelton Diller		FOR LAB USE ONLY		PRESERV.		SAMPLING	
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME
11350444					GROUNDWATER		
					WASTEWATER		
					SOIL		
					OIL		
					SLUDGE		
					OTHER		
					ACID/BASE		
					ICE / COOL		
					OTHER		
20	ES-21	13	C	1	X	1-24-25	9:52
21	ES-22	13	C	1	X	1-24-25	9:58
22	ES-27	13	C	1	X	1-24-25	10:00
23	ES-24	11	C	1	X	1-24-25	9:38
24	ES-30	11	C	1	X	1-24-25	9:46
25	ES-31	11	C	1	X	1-24-25	9:28
26	ES-32	15	C	1	X	1-24-25	10:04
27	ES-33	15	C	1	X	1-24-25	10:06
28	SW-61	4-15	C	1	X	1-24-25	10:08
29	SW-62	0-4	C	1	X	1-23-25	14:34
REINQUISHED BY: [Signature]		Date: 1/31		Received By: [Signature]		REMARKS: Paycom/FINANCE	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Impact		Thermometer ID	
1.5c		2.1c		No		443	
				No		Correction Factor -0.0c	
FORM-006 R 3.2 10/07/21		† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com					



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 5

Company Name: Ensolum, LLC										P.O. #:										BILL TO										ANALYSIS REQUEST																			
Project Manager: Kelly Lowery										Company: Oxy																																							
Address: 601 N. Mainfield St. STE 400										Attn: Wade D. Rine																																							
City: Midland State: TX Zip: 79701										Address:																																							
Phone #: 214-733-3165 Email: klowery@ensolum.com										City:																																							
Project #: 03B1417144 Project Owner: Oxy										State: Zip:																																							
Project Location: Shell 53m 1C BTB										Phone #:																																							
Sample Name: Shell D. 11c										Email:																																							
Lab I.D. Sample I.D.										Sample Depth (feet)										(G)RAB OR (C)OMP.										# CONTAINERS																			
Matrix										PRESERV.										SAMPLING																													
GROUNDWATER										WASTEWATER										SOIL										OIL																			
SLUDGE										OTHER										ACID/BASE										ICE / COOL																			
OTHER										DATE										TIME																													
30										SW-03										0-4										C										X									
31										SW-04										0-4										C										X									
32										SW-05										0-4										C										X									
33										SW-06										0-4										C										X									
34										SW-07										0-4										C										X									
35										SW-08										0-4										C										X									
36										SW-09										0-4										C										X									
37										SW-10										0-4										C										X									
38										SW-11										0-4										C										X									
39										SW-12										0-4										C										X									

PLEASE NOTE: Liability and Damages: Customer's liability and carrier's insurance normally for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis.

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

In no event shall Customer be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder. Customer, regardless of whether such claim is based upon any of the above stated actions or otherwise.

Relinquished By: [Signature]

Received By: [Signature]

Relinquished By: [Signature]

Received By: [Signature]

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

Observed Temp. °C: 2.1
 Corrected Temp. °C: 1.5

Sample Condition:
 Cool Impact: ☒ Yes ☐ No
 No Impact: ☐ Yes ☒ No

CHECKED BY: [Signature]

Thermometer ID: 4157
 Correction Factor: -0.00

Turnaround Time: Standard ☐ Expedite ☒ Beta (10h) Sample Condition: ☐ Yes ☒ No

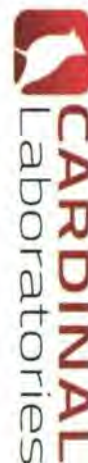
Remarks: 3 day

Verbal Result: ☐ Yes ☐ No

Add'l Phone #: [Blank]

All Results are emailed. Please provide Email address: klowery@ensolum.com; Berrington@ensolum.com

REMARKS: Pyrex/AFENONAF:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

595

[illegible]

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

February 11, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 13:48.

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

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

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

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

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

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

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

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

Sincerely,

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
705 W WADLEY AVE.
MIDLAND TX, 79705Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:Reported:
11-Feb-25 15:35

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

FS - 16 18' BGS	H250733-01	Soil	06-Feb-25 09:45	06-Feb-25 13:48
-----------------	------------	------	-----------------	-----------------

02/11/25 - Client added depth to sample ID (see COC). This is the revised report and will replace the one sent earlier today, 02/11/25.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:35

FS - 16 18' BGS**H250733-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	10000		16.0	mg/kg	4	5020724	HM	07-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5020703	JH	07-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 5020703 JH 07-Feb-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	

Surrogate: 1-Chlorooctane 82.9 % 48.2-134 5020639 MS 07-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148 5020639 MS 07-Feb-25 8015B

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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:35

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5020724 - 1:4 DI Water									
Blank (5020724-BLK1)					Prepared & Analyzed: 07-Feb-25				
Chloride	ND	16.0	mg/kg						
LCS (5020724-BS1)					Prepared & Analyzed: 07-Feb-25				
Chloride	416	16.0	mg/kg	400	104	80-120			
LCS Dup (5020724-BSD1)					Prepared & Analyzed: 07-Feb-25				
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5020703 - Volatiles**Blank (5020703-BLK1)**

Prepared & Analyzed: 07-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	71.5-134			

LCS (5020703-BS1)

Prepared & Analyzed: 07-Feb-25

Benzene	1.77	0.050	mg/kg	2.00		88.6	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.8	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	71.5-134			

LCS Dup (5020703-BSD1)

Prepared & Analyzed: 07-Feb-25

Benzene	1.75	0.050	mg/kg	2.00		87.7	82.8-130	1.04	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.1	86-128	0.0354	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	85.9-128	0.721	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.5	89-129	1.23	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	86.1-125	5.30	16.7	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	88.2-128	2.60	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5020639 - General Prep - Organics**Blank (5020639-BLK1)**

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	49.1-148			

LCS (5020639-BS1)

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	217	10.0	mg/kg	200		108	81.5-123			
DRO >C10-C28	213	10.0	mg/kg	200		107	77.7-122			
Total TPH C6-C28	430	10.0	mg/kg	400		108	80.9-121			
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148			

LCS Dup (5020639-BS1)

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123	5.10	13	
DRO >C10-C28	199	10.0	mg/kg	200		99.5	77.7-122	6.98	15.6	
Total TPH C6-C28	405	10.0	mg/kg	400		101	80.9-121	6.02	18.5	
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	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

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

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

ANALYSIS REQUEST

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

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

February 11, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 13:48.

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

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

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:Reported:
11-Feb-25 15:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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SW 16 13-18' BGS	H250734-01	Soil	06-Feb-25 11:00	06-Feb-25 13:48
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02/11/25 - Client added depth to sample ID (see COC). This is the revised report and will replace the one sent earlier today, 02/11/25.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:38

SW 16 13-18' BGS
H250734-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	3080		16.0	mg/kg	4	5020724	HM	07-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5020703	JH	07-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 5020703 JH 07-Feb-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	

Surrogate: 1-Chlorooctane 57.8 % 48.2-134 5020639 MS 07-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 56.9 % 49.1-148 5020639 MS 07-Feb-25 8015B

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:38

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5020724 - 1:4 DI Water									
Blank (5020724-BLK1)					Prepared & Analyzed: 07-Feb-25				
Chloride	ND	16.0	mg/kg						
LCS (5020724-BS1)					Prepared & Analyzed: 07-Feb-25				
Chloride	416	16.0	mg/kg	400	104	80-120			
LCS Dup (5020724-BSD1)					Prepared & Analyzed: 07-Feb-25				
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	

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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5020703 - Volatiles**Blank (5020703-BLK1)**

Prepared & Analyzed: 07-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	71.5-134			

LCS (5020703-BS1)

Prepared & Analyzed: 07-Feb-25

Benzene	1.77	0.050	mg/kg	2.00		88.6	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.8	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	71.5-134			

LCS Dup (5020703-BSD1)

Prepared & Analyzed: 07-Feb-25

Benzene	1.75	0.050	mg/kg	2.00		87.7	82.8-130	1.04	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.1	86-128	0.0354	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	85.9-128	0.721	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.5	89-129	1.23	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	86.1-125	5.30	16.7	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	88.2-128	2.60	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5020639 - General Prep - Organics**Blank (5020639-BLK1)**

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	49.1-148			

LCS (5020639-BS1)

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	217	10.0	mg/kg	200		108	81.5-123			
DRO >C10-C28	213	10.0	mg/kg	200		107	77.7-122			
Total TPH C6-C28	430	10.0	mg/kg	400		108	80.9-121			
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148			

LCS Dup (5020639-BS1)

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123	5.10	13	
DRO >C10-C28	199	10.0	mg/kg	200		99.5	77.7-122	6.98	15.6	
Total TPH C6-C28	405	10.0	mg/kg	400		101	80.9-121	6.02	18.5	
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

February 11, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 13:48.

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

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

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:Reported:
11-Feb-25 15:43

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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DR PI TOPSOIL	H250735-01	Soil	06-Feb-25 12:42	06-Feb-25 13:48
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02/11/25 - Client clarified the sample ID. This is the revised report and will replace the one sent earlier today, 02/ 11/25.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:43

DR PI TOPSOIL
H250735-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5020724	HM	07-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5020703	JH	07-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 5020703 JH 07-Feb-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5020640	MS	07-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5020640	MS	07-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5020640	MS	07-Feb-25	8015B	

Surrogate: 1-Chlorooctane 97.9 % 48.2-134 5020640 MS 07-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148 5020640 MS 07-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:43

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5020724 - 1:4 DI Water									
Blank (5020724-BLK1)					Prepared & Analyzed: 07-Feb-25				
Chloride	ND	16.0	mg/kg						
LCS (5020724-BS1)					Prepared & Analyzed: 07-Feb-25				
Chloride	416	16.0	mg/kg	400	104	80-120			
LCS Dup (5020724-BSD1)					Prepared & Analyzed: 07-Feb-25				
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	

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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:43

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5020703 - Volatiles**Blank (5020703-BLK1)**

Prepared & Analyzed: 07-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	71.5-134			

LCS (5020703-BS1)

Prepared & Analyzed: 07-Feb-25

Benzene	1.77	0.050	mg/kg	2.00		88.6	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.8	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	71.5-134			

LCS Dup (5020703-BSD1)

Prepared & Analyzed: 07-Feb-25

Benzene	1.75	0.050	mg/kg	2.00		87.7	82.8-130	1.04	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.1	86-128	0.0354	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	85.9-128	0.721	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.5	89-129	1.23	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	86.1-125	5.30	16.7	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	88.2-128	2.60	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	71.5-134			

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Analytical Results For:

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

Project: SHELL STATE 1C CTB
Project Number: 03B1417144
Project Manager: KELLY LOWERY
Fax To:

Reported:
11-Feb-25 15:43

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5020640 - General Prep - Organics**Blank (5020640-BLK1)**

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	62.5		mg/kg	50.0		125	48.2-134			
Surrogate: 1-Chlorooctadecane	67.3		mg/kg	50.0		135	49.1-148			

LCS (5020640-BS1)

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	207	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	77.7-122			
Total TPH C6-C28	415	10.0	mg/kg	400		104	80.9-121			
Surrogate: 1-Chlorooctane	66.8		mg/kg	50.0		134	48.2-134			
Surrogate: 1-Chlorooctadecane	68.8		mg/kg	50.0		138	49.1-148			

LCS Dup (5020640-BS1)

Prepared: 06-Feb-25 Analyzed: 07-Feb-25

GRO C6-C10	203	10.0	mg/kg	200		102	81.5-123	1.91	13	
DRO >C10-C28	201	10.0	mg/kg	200		100	77.7-122	3.49	15.6	
Total TPH C6-C28	404	10.0	mg/kg	400		101	80.9-121	2.70	18.5	
Surrogate: 1-Chlorooctane	63.2		mg/kg	50.0		126	48.2-134			
Surrogate: 1-Chlorooctadecane	64.5		mg/kg	50.0		129	49.1-148			

Cardinal Laboratories

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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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

October 03, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MILLS RANCH PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/30/2024
 Reported: 10/03/2024
 Project Name: MILLS RANCH PIT
 Project Number: 03B1417139
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 09/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: MILLS RANCH PIT 0.25' (H245925-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	1.99	99.6	2.00	6.75	
Toluene*	0.060	0.050	10/02/2024	ND	2.05	103	2.00	6.79	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.07	104	2.00	7.11	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.16	103	6.00	7.03	
Total BTEX	<0.300	0.300	10/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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: Kelly Lowery Address: 601 N Marienteld Street, Suite 400 City: Midland State: TX Zip: 79701 Phone #: 214-773-3165 Fax #: Project #: 03BL447139 Project Owner: Project Name: Mills Ranch Pit Project Location: Lea County, NM Sampler Name: NKD										P.O. #: Address: City: State: Zip: Phone #: Fax #:									
FOR LAB USE ONLY Lab I.D. Sample I.D. Depth (feet) (G)RAB OR (C)OMP. # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME SAMPLING										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: REMARKS:									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising hereby, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.										Turnaround Time: <input type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Add'l Phone #: Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C									

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS

Action 456289

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402456040
Incident Name	NAPP2402456040 SHELL STATE 1C CTB @ 30-025-20810
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-20810] SHELL STATE #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SHELL STATE 1C CTB
Date Release Discovered	01/23/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error Valve Crude Oil Released: 10 BBL Recovered: 3 BBL Lost: 7 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Valve Produced Water Released: 40 BBL Recovered: 3 BBL Lost: 37 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	Produced oil and produced water release

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QUESTIONS, Page 2

Action 456289

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/28/2025
--	---

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QUESTIONS, Page 3

Action 456289

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	90600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	670
GRO+DRO (EPA SW-846 Method 8015M)	526
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/20/2024
On what date will (or did) the final sampling or liner inspection occur	04/16/2025
On what date will (or was) the remediation complete(d)	04/16/2025
What is the estimated surface area (in square feet) that will be reclaimed	6281
What is the estimated volume (in cubic yards) that will be reclaimed	931
What is the estimated surface area (in square feet) that will be remediated	6281
What is the estimated volume (in cubic yards) that will be remediated	8208
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 456289

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	456289
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/28/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 456289

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 456289

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	427462
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	400

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	9872
What was the total volume (cubic yards) remediated	4733
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	9872
What was the total volume (in cubic yards) reclaimed	1463
Summarize any additional remediation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/28/2025

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QUESTIONS, Page 7

Action 456289

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 456289

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	456289
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation closure is approved.	6/25/2025
michael.buchanan	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.	6/25/2025
michael.buchanan	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.	6/25/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/25/2025
michael.buchanan	A revegetation report will not be accepted until revegetation 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.	6/25/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	6/25/2025

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QUESTIONS

Action 529989

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402456040
Incident Name	NAPP2402456040 SHELL STATE 1C CTB @ 30-025-20810
Incident Type	Release Other
Incident Status	Reclamation Report Received
Incident Well	[30-025-20810] SHELL STATE #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SHELL STATE 1C CTB
Date Release Discovered	01/23/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error Valve Crude Oil Released: 10 BBL Recovered: 3 BBL Lost: 7 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Valve Produced Water Released: 40 BBL Recovered: 3 BBL Lost: 37 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	Produced oil and produced water release

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QUESTIONS, Page 2

Action 529989

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/25/2025
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QUESTIONS, Page 3

Action 529989

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	90600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	670
GRO+DRO (EPA SW-846 Method 8015M)	526
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/20/2024
On what date will (or did) the final sampling or liner inspection occur	04/16/2025
On what date will (or was) the remediation complete(d)	04/16/2025
What is the estimated surface area (in square feet) that will be reclaimed	6281
What is the estimated volume (in cubic yards) that will be reclaimed	931
What is the estimated surface area (in square feet) that will be remediated	6281
What is the estimated volume (in cubic yards) that will be remediated	8208
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 529989

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/25/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 529989

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 529989

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	427462
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	400

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	9872
What was the total volume (cubic yards) remediated	4733
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	9872
What was the total volume (in cubic yards) reclaimed	1463
Summarize any additional remediation activities not included by answers (above)	NA

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

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

I hereby agree and sign off to the above statement	Name: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/25/2025
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QUESTIONS, Page 7

Action 529989

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	9872
What was the total volume of replacement material (in cubic yards) for this site	4733
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	03/20/2026
Summarize any additional reclamation activities not included by answers (above)	The reclaimed pasture area will be seeded during the Spring of 2026 when temperatures and precipitation are conducive to vegetative growth.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/25/2025

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Action 529989

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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CONDITIONS

Action 529989

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529989
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	12/1/2025