



March 17, 2025

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
Old Ranch Canyon 7 Federal #001
Incident Number: nMLB0432755192
API: 30-015-28011
32.4107857°N, 104.5352631°W
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA, Inc. (Oxy), has prepared the following *Closure Request* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the Old Ranch Canyon 7 Federal #001 (Site). The purpose of the site assessment activities was to delineate the vertical and lateral extent of impacted soil resulting from an historical release of produced water at the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 07, Township 22 South, Range 24 East, in Eddy County, New Mexico (32.4107857°N, 104.5352631°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 10, 2004, there was a connection failure which resulted in the release of 290 barrels (bbls) of produced water onto and off the pad. Approximately 260 bbls of produced water was recovered via the use of vacuum trucks. Devon Energy Production Co. LP reported the release to the New Mexico Oil Conservation Division (NMOCD) on November 25, 2004 and the release was assigned Incident Number nMLB0432755192.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on NMOCD Portal of the Form C-141, Site Assessment/Characterization submitted on October 4, 2024. Potential site receptors are identified on **Figure 1** in **Appendix A**.

Depth to groundwater at the Site is less than 25 feet bgs based on the nearest groundwater well data. In 1998, a US Geological survey (USGS) permitted well (322448104322101) measured groundwater to a depth of 14 feet bgs located approximately 0.3 miles northwest of the Site and is depicted on **Figure 1** in **Appendix A**. The Well Record is included in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is a intermittent stream located approximately 551 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church,

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or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area).

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On October 14, 2024 and November 6, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141 and visual observations. Ensolum personnel collected 9 delineation soil samples (DS01 and DS09) outside the release extent from a depth of 0.25 feet bgs, 11 pothole soil samples from 5 locations (PH01 through PH05) within the release extent from depths varying from 0.5 foot to 4 feet bgs utilizing a backhoe to assess the vertical extent of the release, and 61 confirmation composite soil samples (CS01 through CS61) within the release extent from a depth of 0.25 feet bgs every 200 square feet. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 2 (Appendix A)**. Photographic documentation was completed during the Site visit and a Photographic Log is included in **Appendix C**.

BACKGROUND

Ensolum submitted a Remediation Work Plan on January 9, 2025 that included the results of the assessment and delineation activities. NMOCD Accepted the Workplan and Extension request on January 23, 2025. Correspondance is recorded in **Appendix E**.

COMPOSITE SAMPLING, EXCAVATION ACTIVITIES, AND LABORATORY ANALYTICAL RESULTS

Between January 10, 2025, and February 28, 2025, Ensolum personnel returned to the Site to collect 5-point composite soil samples every 200 square feet from the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite excavation soil samples were collected from 61 locations from the excavation floor (FS01 through FS61) at depths ranging between 1 feet bgs to 7 feet bgs to confirm the absence of impacted soil. Composite sidewall excavation soil samples were collected from 10 locations from the excavation sidewalls (SW01 through SW10) at depths ranging from 0-1 to 0-7 feet bgs to confirm the lateral extent of the impacted soil. The soil samples were handled and analyzed following the same procedures as described above.

The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 2 (Appendix A)**. Photographic documentation was completed during the Site visits and a photographic log is included as **Appendix C**.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported

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under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemical of concern (COC): chloride following United States Environmental Protection Agency (EPA) Method SM4500; TPH-GRO, TPH-DRO, and TPH-ORO following EPA Method 8015M/D; and BTEX following EPA Method 8021B.

Laboratory analytical results for final soil samples FS01 through FS61 indicated all COCs were compliant with the Site Closure Criteria. Laboratory analytical results for sidewall soil samples SW01 through SW10 indicated all COC concentrations were compliant with the most stringent Closure Criteria.

The excavation areas measured approximately 11,955 square feet. A total of 2,144 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land in Lea County, New Mexico.

The well pad will be undergoing plugging and abandonment activities, the excavation will be backfilled during the pad reclamation activities in accordance with 19.15.29.13 NMAC.

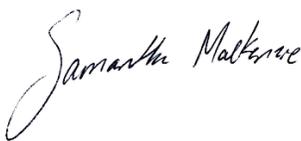
CLOSURE REQUEST

Site assessment and remediation activities were conducted at the Site to address the November 10, 2004, produced water release. Laboratory analytical results for the assessment and excavation activities indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the laboratory analytical results, no further remediation is required at this time. The excavation area will be backfilled during reclamation activities of the well pad in accordance with 19.15.29.13 NMAC.

Depth to groundwater was determined to be less than 25 feet bgs within 0.5 miles of the Site and is located within a high karst area, no other sensitive receptors were identified near the release extent. Oxy believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, Oxy respectfully requests closure for Incident Number nMLB0432755192.

If you have any questions or comments, please contact Ms. Samantha MacKenzie at (703) 357-3545 or smackenzie@ensolum.com.

Sincerely,
Ensolum, LLC



Samantha MacKenzie
Staff Geologist



Beaux Jennings
Associate Principal

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

Appendices:

- Appendix A Figures
- Appendix B Supporting Documentation
- Appendix C Photographic Log
- Appendix D Table



Oxy USA, Inc.
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Old Ranch Canyon 7 Federal #001

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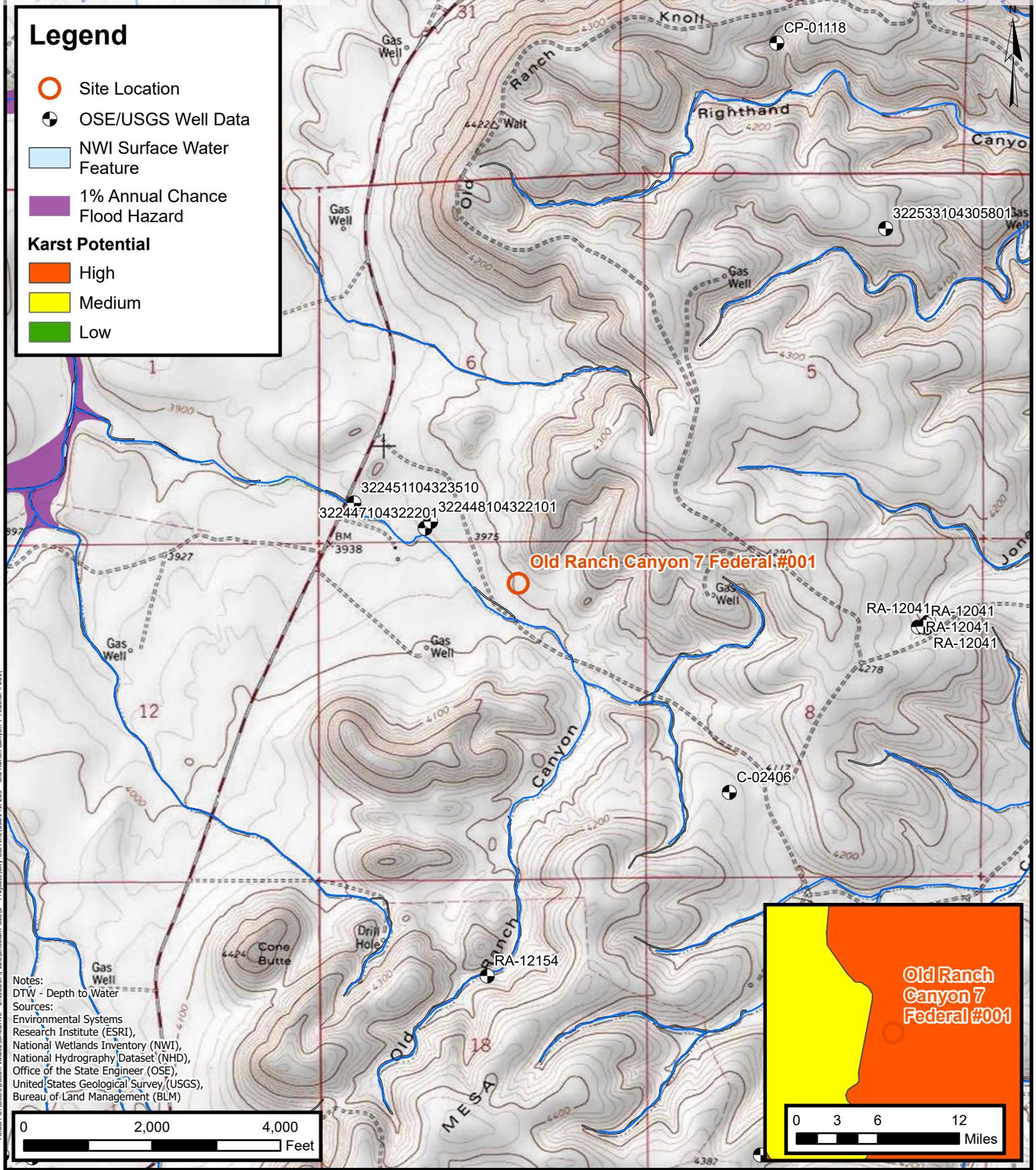
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Appendix E NMOCD Correspondence
Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation



APPENDIX A

Figures

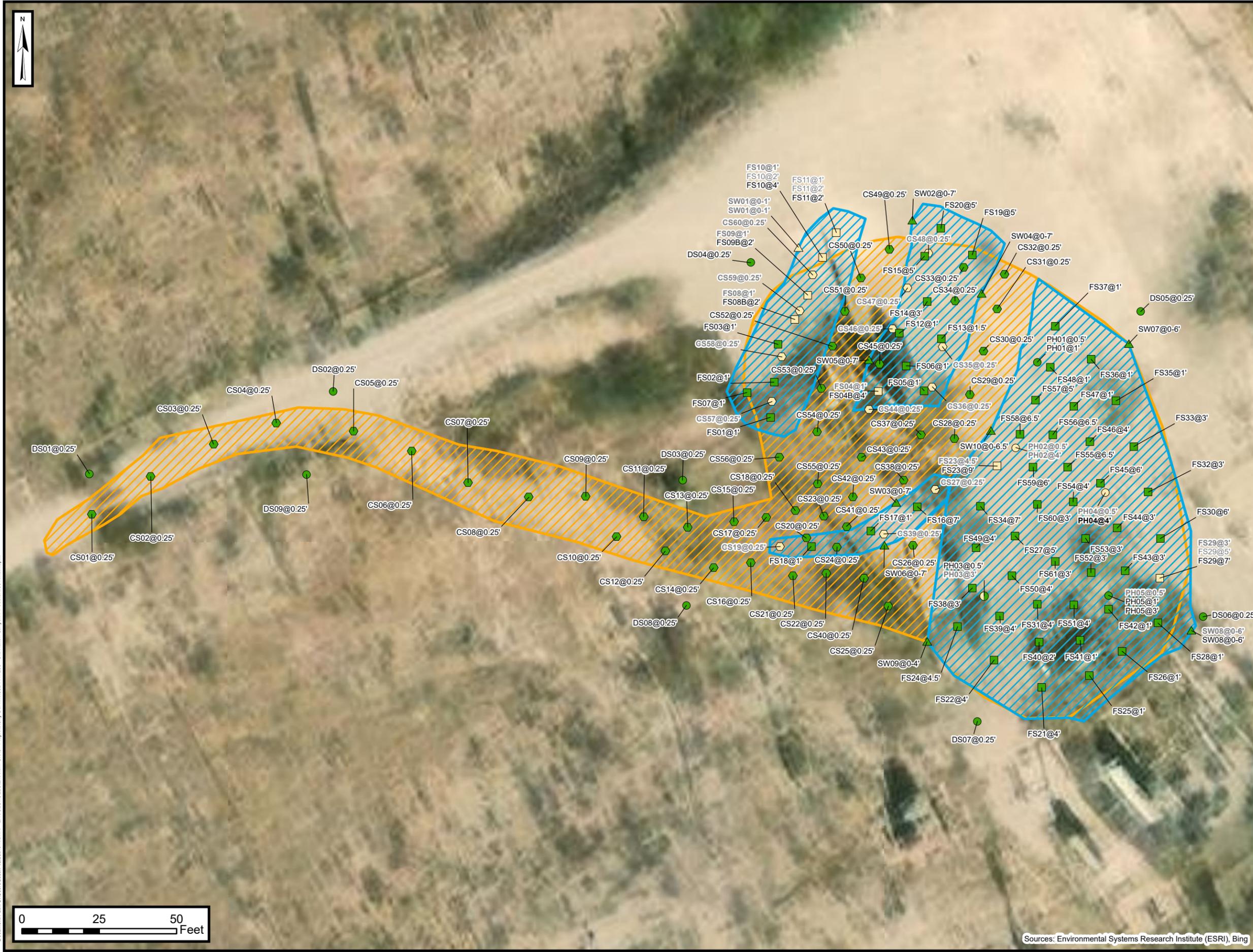


Folder: C:\Users\Justin.Velazquez\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\Oxy USA, Inc\0381417205 - Old Ranch Canyon 7 Federal #001



Site Receptor Map
 Oxy USA Inc.
 Old Ranch Canyon 7 Federal #001
 Incident Number: NMLB0432755192
 Unit B, Section 07, T 22S, R 24E
 Eddy County, New Mexico

FIGURE
1



Legend

- Confirmation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample - Removed
- Confirmation Sample - Removed
- Delineation Sample - Removed
- Excavation Floor Sample - Removed
- Delineation Sample - Removed
- Excavation Extent
- Release Extent

Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.

Site Map

Oxy USA Inc.
 Old Ranch Canyon 7 Federal #001
 Incident Number: NMLB0432755192
 Unit B, Section 07, T 22S, R 24E
 Eddy County, New Mexico

FIGURE

2

Project Number: 03B1417205

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

Document Path: C:\Users\julin.Velazquez\OneDrive - ENSOLUM, L.L.C\Ensolum GIS0 - Projects\Oxy USA Inc\03B1417205 - Old Ranch Canyon 7 Federal #001\Main.aprx

Sources: Environmental Systems Research Institute (ESRI), Bing



APPENDIX B

Supporting Documentation

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

ORIGINAL

30-015-28011

Release Notification and Corrective Action

n MLB0432755192

OPERATOR

Initial Report Final Report

Name of Company: Devon Energy Production Co. LP	Contact: Jennifer Van Curen
Address: PO Box 250; Artesia, NM 88211	Telephone No.: 505-748-0160
Facility Name: Old Ranch Canyon 7 Fed 1	Facility Type: Battery

Surface Owner	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	7	22S	24E	660	North	1930	East	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Water	Volume of Release: 290	Volume Recovered: 260
Source of Release: Victaulic connection on 6" water line	Date and Hour of Occurrence 11/10/04: 4:30 am	Date and Hour of Discovery 11/10/04: 4:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Joe Huber	Date and Hour: 11/10/04: 7:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
NOV 17 2004
OCD-ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Victaulic connection on 6" water line failed. Spilled 250 bbls PW inside dike with 40 bbls leaking thru dike and traveling 300' off location. Shut off flow. Vacuumed up all contained and puddled water.

Describe Area Affected and Cleanup Action Taken.*
Inspection of connection indicated pipe had been subject to movement or vibration wearing away at clamp surfaces. Plan to cement new pipe and coupling in place to prevent movement. Waiting on further clean-up recommendations from the BLM / OCD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Jennifer Van Curen</i>	OIL CONSERVATION DIVISION	
Printed Name: Jennifer Van Curen	Approved by District Supervisor:	
Title: Production Field Tech	Approval Date:	Expiration Date:
E-mail Address: Jennifer.vancuren@dvn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/15/04 Phone: 748-0160		

* Attach Additional Sheets If Necessary

Eddy County, New Mexico
 Latitude 32°24'48", Longitude 104°32'21" NAD27
 Land-surface elevation 3,966 feet above NAVD88
 The depth of the well is 35 feet below land surface.
 This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1978-01-13		D	62610		3950.59	NGVD29	1	Z			A
1978-01-13		D	62611		3952.36	NAVD88	1	Z			A
1978-01-13		D	72019	13.64			1	Z			A
1983-01-25		D	62610		3950.81	NGVD29	1	Z			A
1983-01-25		D	62611		3952.58	NAVD88	1	Z			A
1983-01-25		D	72019	13.42			1	Z			A
Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1992-11-04		D	72019	13.30			1	S			A
1998-01-30		D	62610		3950.25	NGVD29	1	S			A
1998-01-30		D	62611		3952.02	NAVD88	1	S			A
1998-01-30		D	72019	13.98			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.



APPENDIX C

Photographic Log



Photographic Log

Oxy USA, Inc
Old Ranch Canyon 7 Federal #001
Incident Number NMLB0432755192



Photograph: 1 Date: 8/29/2024
Description: Soil staining in release footprint
View: Northwest

Photograph: 2 Date: 8/29/2024
Description: Soil staining in release footprint
View: Southeast



Photograph: 3 Date: 11/6/2024
Description: Pothole activities
View: West

Photograph: 4 Date: 1/8/2025
Description: Beginning of excavation
View: West



Photographic Log

Oxy USA, Inc
Old Ranch Canyon 7 Federal #001
Incident Number NMLB0432755192



Photograph: 5 Date: 1/10/2025
Description: Excavation activities
View: North

Photograph: 6 Date: 2/18/2025
Description: Excavation activities
View: Northwest



Photograph: 7 Date: 2/28/2025
Description: Excavation activities
View: Southwest

Photograph: 8 Date: 2/28/2025
Description: Excavation activities
View: Southwest



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
Delineation Soil Sample Analytical Results												
DS01	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS02	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS03	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS04	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS05	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS06	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS07	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
DS08	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
DS09	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Pothole Soil Sample Analytical Results												
PH01	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	11/06/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
PH02	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	896
	11/06/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	672
PH03	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
	11/06/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,020
PH04	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	33,200
	11/06/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,920
PH05	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,570
	11/06/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464
	11/06/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
Confirmation Soil Sample Analytical Results												
CS01	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
CS02	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS03	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS04	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS05	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS06	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS07	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS08	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS09	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS10	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS11	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS12	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
CS13	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS14	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS15	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS16	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS17	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS18	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS19	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.5	91.5	109	<16.0
CS20	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	36.8	36.8	<16.0
CS21	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS22	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS23	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS24	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.3	40.2	96.5	32.0
CS25	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS26	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
CS27	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,000
CS28	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
CS29	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
CS30	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
CS31	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
CS32	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
CS33	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
CS34	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
CS35	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,200
CS36	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	108	351	459	32.0
CS37	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	18.0	18.0	16.0
CS38	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	544
CS39	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.9	130	159	784
CS40	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS41	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS42	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS43	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	14.3	14.3	144

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
CS44	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	160	555	715	16.0
CS45	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	41.0	41.0	16.0
CS46	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	53.0	68.9	3,600
CS47	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,000
CS48	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	266	230	496	160
CS49	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS50	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS51	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS52	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.6	31.4	51.0	32.0
CS53	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.9	22.0	66.9	48.0
CS54	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS55	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.9	27.7	61.6	<16.0
CS56	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS57	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.4	48.2	127	32.0
CS58	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	314	178	492	<16.0
CS59	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	363	179	542	64.0
CS60	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	822	266	1,088	288
CS61	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
Excavation Soil Sample Analytical Results												
FS01	01/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS02	01/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS03	01/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS04	01/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.3	71.5	153	32.0
	02/17/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS05	01/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS06	01/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS07	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS08	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	396	176	572	32.0
	02/17/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS09	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	774	291	1,065	128
	02/17/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS10	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.1	14.3	58.4	96.0
	02/11/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160.0
	02/17/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS11	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.1	<10.0	11.1	32.0
	02/11/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	02/17/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	18.9	29.3	32.0
FS12	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS13	01/28/2025	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
FS14	01/28/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	576
FS15	01/29/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
FS16	01/29/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
FS17	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
FS18	01/28/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS19	01/29/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
FS20	01/29/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
FS21	02/12/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
FS22	02/12/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	528
FS23	01/31/2025	4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	608

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
FS23	02/17/2025	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
FS24	02/28/2025	4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
FS25	01/29/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS26	01/29/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS27	01/31/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464
FS28	01/29/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS29	01/31/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
	02/12/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
	02/17/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
FS30	02/11/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	528
FS31	01/31/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
FS32	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	480
FS33	01/31/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS34	01/30/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
FS35	01/30/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS36	01/30/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
FS37	01/30/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
FS38	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
FS39	01/31/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
FS40	01/30/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
FS41	01/30/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS42	01/30/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
FS43	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
FS44	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS45	02/11/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
FS46	01/31/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
FS47	01/30/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
FS48	01/30/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
FS49	01/31/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
FS50	01/31/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
FS51	01/31/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
FS52	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
FS53	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS54	01/31/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
FS55	02/12/2025	6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
FS56	02/12/2025	6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
FS57	01/31/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
FS58	02/12/2025	6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
FS59	02/11/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
FS60	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
FS61	01/30/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
Sidewall Soil Sample Analytical Results												
SW01	01/28/2025	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	366	115	481	16.0
	02/17/2025	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	386	48.6	435	48.0
	02/28/2025	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW02	01/29/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.8	<10.0	15.8	320
SW03	01/31/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW04	01/29/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
SW05	01/29/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
SW06	01/31/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
SW07	02/12/2025	0 - 6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
SW08	02/12/2025	0 - 6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	640
	02/28/2025	0 - 6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
SW09	02/28/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
SW10	02/12/2025	0 - 6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384

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

 represents samples that have been excavated and or resampled

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbons



APPENDIX E

NMOCD Correspondence

From: [Dittrich, John W](#)
To: [Kelly Lowery](#); [Hadlie Green](#)
Cc: [Samantha MacKenzie](#); [Georgiana McSwane](#); [Beaux Jennings](#)
Subject: Fw: The Oil Conservation Division (OCD) has approved the application, Application ID: 419088
Date: Thursday, January 23, 2025 11:22:43 AM

[EXTERNAL EMAIL**]**

Old Ranch Canyon 7 Fed. 01--11/10/2004

Wade Dittrich

Environmental Advisor

New Mexico

575-390-2828

wade_dittrich@oxy.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, January 23, 2025 10:00 AM
To: Dittrich, John W <wade_dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 419088

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#) nMLB0432755192, with the following conditions:

- **Remediation plan is approved as written except with the following conditions; 1. OXY must complete the excavation and removal of impacted soils until confirmation samples collected from the bottom and sidewalls of the excavation report NMOCD Closure Criteria per 19.15.29.12 NMAC has been achieved. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, OXY must collect a minimum of one (1) 5pcs 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 23, 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



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

October 21, 2024

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

RE: OLD CANYON RANCH 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 10/15/24 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, flowing style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 01 0.25' (H246256-01)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	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	64.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 02 0.25' (H246256-02)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	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	32.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 03 0.25' (H246256-03)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	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	16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 04 0.25' (H246256-04)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.4 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 05 0.25' (H246256-05)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 06 0.25' (H246256-06)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 07 0.25' (H246256-07)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 08 0.25' (H246256-08)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 09 0.25' (H246256-09)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	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	32.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.5 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 10 0.25' (H246256-10)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 11 0.25' (H246256-11)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 12 0.25' (H246256-12)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	16.0	10/16/2024	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 13 0.25' (H246256-13)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	16.0	10/16/2024	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 14 0.25' (H246256-14)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 15 0.25' (H246256-15)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	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	16.0	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 16 0.25' (H246256-16)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 17 0.25' (H246256-17)

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	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 18 0.25' (H246256-18)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	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	32.0	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 19 0.25' (H246256-19)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	17.5	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	91.5	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 20 0.25' (H246256-20)

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	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	36.8	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 21 0.25' (H246256-21)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 97.0 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 22 0.25' (H246256-22)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 23 0.25' (H246256-23)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 24 0.25' (H246256-24)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	56.3	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	40.2	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 25 0.25' (H246256-25)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 26 0.25' (H246256-26)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	288	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 27 0.25' (H246256-27)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	4000	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 28 0.25' (H246256-28)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	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	416	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	10/16/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 29 0.25' (H246256-29)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	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	432	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 30 0.25' (H246256-30)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	352	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 31 0.25' (H246256-31)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	112	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	10/17/2024	ND	205	103	200	5.00		
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	208	104	200	6.40		
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND						

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 32 0.25' (H246256-32)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	48.0	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 33 0.25' (H246256-33)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	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	368	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 34 0.25' (H246256-34)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 35 0.25' (H246256-35)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	10/16/2024	ND	400	100	400	3.92	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	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 36 0.25' (H246256-36)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	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	32.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	108	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	351	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 37 0.25' (H246256-37)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	18.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 38 0.25' (H246256-38)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 39 0.25' (H246256-39)

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	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	28.9	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	130	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 40 0.25' (H246256-40)

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	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 41 0.25' (H246256-41)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 42 0.25' (H246256-42)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 43 0.25' (H246256-43)

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	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	14.3	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 44 0.25' (H246256-44)

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	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	160	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	555	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 45 0.25' (H246256-45)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	41.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 46 0.25' (H246256-46)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	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	3600	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	15.9	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	53.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 47 0.25' (H246256-47)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 101 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 48 0.25' (H246256-48)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	266	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	230	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 49 0.25' (H246256-49)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	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	16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 50 0.25' (H246256-50)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND						

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 51 0.25' (H246256-51)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2024	ND	229	114	200	2.86		
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	207	104	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND						

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 52 0.25' (H246256-52)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	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	32.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	19.6	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	31.4	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 53 0.25' (H246256-53)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	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	48.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	44.9	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	22.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 54 0.25' (H246256-54)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 55 0.25' (H246256-55)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	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	<16.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	33.9	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	27.7	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 56 0.25' (H246256-56)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	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	32.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 57 0.25' (H246256-57)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	78.4	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	48.2	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 58 0.25' (H246256-58)

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	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	314	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	178	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 59 0.25' (H246256-59)

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	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	64.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	363	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	179	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 60 0.25' (H246256-60)

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	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	288	16.0	10/16/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	822	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	266	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/15/2024	Sampling Date:	10/14/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CS 61 0.25' (H246256-61)

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	10/17/2024	ND	2.11	106	2.00	3.19		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	3.17		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.18	109	2.00	3.45		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.49	108	6.00	3.46		
Total BTEX	<0.300	0.300	10/17/2024	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	32.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143		
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND						

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha MacKenzie
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3545 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Canyon Ranch 7 Federal #001
Project Location:
Sampler Name: Kaoru Shimada

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

Table with columns: Lab I.D., Sample I.D., Sample Depth (feet), (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME), and analysis methods (BTEX, TPH, Chloride, Hold).

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Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345
Received By: [Signature] Verbal Result: [X] No Add'l Phone #:
All Results are emailed. Please provide Email address: smackenzie@ensolum.com
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: -1.3 Corrected Temp. °C: -1.9
Sample Condition: Cool [X] Intact [X]
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [X] Rush
Bacteria (only) Sample Condition: Cool Intact [X] Observed Temp. °C:
Thermometer ID #413 #140 Correction Factor 0.5°C -0.6°C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha MacKenzie
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3545 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Canyon Ranch 7 Federal #001
Project Location:
Sampler Name: Kaoru Shimada
BILL TO ANALYSIS REQUEST
P.O. #:
Company: Oxy USA, Inc.
Attn: Wade Dittrich
Address:
City:
State: Zip:
Phone #: 575-390-2828
Fax #:
FOR LAB USE ONLY
Lab I.D. Sample I.D. Sample Depth (feet) (G)RAB OR (C)OMP. # CONTAINERS MATRIX PRESERV. SAMPLING
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME
H246256 11 CS 11 0.25 C 1 10-14-2024 1318
12 CS 12 1319
13 CS 13 1322
14 CS 14 1324
15 CS 15 1325
16 CS 16 1326
17 CS 17 1328
18 CS 18 1327
19 CS 19 1329
20 CS 20 1330
BTEX 8021B TPH 8015M Chloride 4500Cl Hold

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Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345
Received By: [Signature] Date: Received By:
Verbal Result: [] Yes [X] No Add'l Phone #:
All Results are emailed. Please provide Email address: smackenzie@ensolum.com
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C -1.3 Sample Condition Cool Intact [X] Yes [] No
Corrected Temp. °C -1.9 CHECKED BY: (Initials) J.O.
Turnaround Time: Standard [] Rush [X] Bacteria (only) Sample Condition Cool Intact [] Yes [] No Observed Temp. °C
Thermometer ID #113 #140 Correction Factor 0.50 -0.6°C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha MacKenzie
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3545 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Canyon Ranch 7 Federal #001
Project Location:
Sampler Name: Kaoru Shimada
BILL TO: P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:
ANALYSIS REQUEST: BTEX 8021B TPH 8015M Chloride 4500Cl Hold

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Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345
Received By: [Signature] Date: [Blank] Time: [Blank]
Verbal Result: [] Yes [X] No Add'l Phone #:
All Results are emailed. Please provide Email address: smackenzie@ensolum.com
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: -1.3 Corrected Temp. °C: -1.9
Sample Condition: Cool Intact [X] Yes [X] Yes [] No [] No
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [X] Rush []
Bacteria (only) Sample Condition: Cool Intact [] Yes [] Yes [] No [] No
Thermometer ID #118 #140 Correction Factor 0.5°C -0.6°C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha MacKenzie
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3545 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Canyon Ranch 7 Federal #001
Project Location:
Sampler Name: Kaoru Shimada
BILL TO ANALYSIS REQUEST
P.O. #:
Company: Oxy USA, Inc.
Attn: Wade Dittrich
Address:
City:
State: Zip:
Phone #: 575-390-2828
Fax #:
FOR LAB USE ONLY
Lab I.D. Sample I.D. Sample Depth (feet) (G)RAB OR (C)OMP. # CONTAINERS MATRIX PRESERV. SAMPLING
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME
H246256 41 CS 41 0.25 C 1 ✓ ✓ ✓
42 CS 42
43 CS 43
44 CS 44
45 CS 45
46 CS 46
47 CS 47
48 CS 48
49 CS 49
50 CS 50
BTEX 8021B TPH 8015M Chloride 4500Cl Hold

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Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345
Received By: [Signature] Verbal Result: [X] No Add'l Phone #:
All Results are emailed. Please provide Email address: smackenzie@ensolum.com
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C: -1.3 Corrected Temp. °C: -1.9
Sample Condition Cool Intact: [X] Yes [] No
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [X] Rush [] Bacteria (only) Sample Condition Cool Intact Observed Temp. °C: [] Yes [] No Corrected Temp. °C: [] Yes [] No
Thermometer ID #113 #140 Correction Factor 0.5°C -0.6°C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST													
Project Manager: Samantha MacKenzie				P.O. #:																	
Address: 601 N. Marienfeld St. STE 400				Company: Oxy USA, Inc.																	
City: Midland		State: TX		Zip: 79701		Attn: Wade Dittrich															
Phone #: 703-357-3545				Address:																	
Project #: 03B1417205				City:																	
Project Name: Old Canyon Ranch 7 Federal #001				State: Zip:																	
Project Location:				Phone #: 575-390-2828																	
Sampler Name: Kaoru Shimada				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500CI	Hold	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:								
H246256																					
51	CS 51	0.25	C	1											10-14-2024	1428					
52	CS 52															1430	✓	✓	✓		
53	CS 53															1431					
54	CS 54															1433					
55	CS 55															1435					
56	CS 56															1437					
57	CS 57															1438					
58	CS 58															1440					
59	CS 59															1441					
60	CS 60															1445					

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Relinquished By: Kaoru Shimada	Date: 10-15-24	Received By: Tamara Odatye	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: smackenzie@ensolum.com		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: -1.3	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) YS	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
	Corrected Temp. °C: -1.9			Thermometer ID #440 #140	<input type="checkbox"/> Yes <input type="checkbox"/> No
				Correction Factor 0.5°C -0.6°C	<input type="checkbox"/> No <input type="checkbox"/> No
					Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha MacKenzie
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3545 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Canyon Ranch 7 Federal #001
Project Location:
Sampler Name: Kaoru Shimada
BILL TO ANALYSIS REQUEST
P.O. #:
Company: Oxy USA, Inc.
Attn: Wade Dittrich
Address:
City:
State: Zip:
Phone #: 575-390-2828
Fax #:
FOR LAB USE ONLY
Lab I.D. Sample I.D. Sample Depth (feet)
H246256 61 0.25
Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER
Preserv: ACID/BASE, ICE/COOL, OTHER
Sampling: DATE 10-14-2024 TIME 1447
BTEX 8021B, TPH 8015M, Chloride 4500Cl, Hold
SK 14 2024

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Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345
Received By: [Signature]
Verbal Result: [X] No Add'l Phone #:
All Results are emailed. Please provide Email address: smackenzie@ensolum.com
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C -1.3
Corrected Temp. °C -1.9
Sample Condition Cool Intact [X] Yes [X] Yes
CHECKED BY: (Initials) T.O.
Turnaround Time: Standard [X] Bacteria (only) Sample Condition
Thermometer ID #413 #140
Correction Factor 0.5°C -0.6°C

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



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

November 12, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OLD CANYON RANCH 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 11/06/24 15:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 01 0.25' (H246775-01)

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	11/09/2024	ND	2.19	109	2.00	10.6	
Toluene*	<0.050	0.050	11/09/2024	ND	2.17	109	2.00	10.1	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.29	114	2.00	9.85	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	6.89	115	6.00	10.1	
Total BTEX	<0.300	0.300	11/09/2024	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	<16.0	16.0	11/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 02 0.25' (H246775-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	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	<16.0	16.0	11/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 03 0.25' (H246775-03)

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	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 04 0.25' (H246775-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 05 0.25' (H246775-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 06 0.25' (H246775-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 07 0.25' (H246775-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5		
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0		
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4		
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4		
Total BTEX	<0.300	0.300	11/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16		
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37		
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

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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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 08 0.25' (H246775-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: DS 09 0.25' (H246775-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 01 0.5' (H246775-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2024	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	11/08/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 01 1' (H246775-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	32.0	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 02 0.5' (H246775-12)

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	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 02 4' (H246775-13)

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	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

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

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 03 0.5' (H246775-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 03 3' (H246775-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 04 0.5' (H246775-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	33200	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 04 4' (H246775-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1920	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 107 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 05 0.5' (H246775-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 05 1' (H246775-19)

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	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	464	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 05 3' (H246775-20)

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	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	432	16.0	11/08/2024	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	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha Mackenzie
Address: 601 N Mariefeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: 707-397-3945 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Ranch Canyon 7 Federal Tract
Project Location: Eddy County, NM
Sampler Name: NKB Noon Duker

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: [Signature] Date: 11-6-24
Received By: [Signature] Date: 11-6-24
Turnaround Time: Standard [X] Rush
Thermometer ID: #113-#140
Correction Factor: -0.5°C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha Mackenzie
Address: 601 N Marienfeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3945 Fax #:
Project #: 078147205 Project Owner:
Project Name: Old Ranch Canyon 7 Federal Pool
Project Location: Eddy County, NM
Sampler Name: Noah Duker
BILL TO: P.O. #: OXY, USA, Inc.
ATTN: Wade Pittman
ANALYSIS REQUEST: BTEX 8021, TPH 8015, Chlordes 4,500

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.
Relinquished By: [Signature] Date: 11-6-24 Time: 15:35
Received By: [Signature] Date: [Blank] Time: [Blank]
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: 4.1 Corrected Temp. °C: 3.5
Sample Condition Cool Intact: [X] Yes [] No
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [X] Rush []
Bacteria (only) Sample Condition: [X] Cool Intact [] Observed Temp. °C
Thermometer ID #413 #1/10 Correction Factor -0.3°C To: 11/6/24

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



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

January 16, 2025

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

RE: OLD CANYON RANCH 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 01/13/25 11:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS 01 1' (H250135-01)

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	01/14/2025	ND	1.79	89.6	2.00	0.450	
Toluene*	<0.050	0.050	01/14/2025	ND	1.95	97.5	2.00	0.213	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.92	96.0	2.00	0.110	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.65	94.1	6.00	0.210	
Total BTEX	<0.300	0.300	01/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	80.0	16.0	01/14/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	87.9	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	172	85.8	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS 02 1' (H250135-02)

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	01/14/2025	ND	1.79	89.6	2.00	0.450		
Toluene*	<0.050	0.050	01/14/2025	ND	1.95	97.5	2.00	0.213		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.92	96.0	2.00	0.110		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.65	94.1	6.00	0.210		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	48.0	16.0	01/14/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	87.9	200	2.37		
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	172	85.8	200	2.80		
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND						

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS 03 1' (H250135-03)

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	01/14/2025	ND	1.79	89.6	2.00	0.450		
Toluene*	<0.050	0.050	01/14/2025	ND	1.95	97.5	2.00	0.213		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.92	96.0	2.00	0.110		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.65	94.1	6.00	0.210		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	87.9	200	2.37		
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	172	85.8	200	2.80		
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND						

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS 04 1' (H250135-04)

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	01/14/2025	ND	1.79	89.6	2.00	0.450		
Toluene*	<0.050	0.050	01/14/2025	ND	1.95	97.5	2.00	0.213		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.92	96.0	2.00	0.110		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.65	94.1	6.00	0.210		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	87.9	200	2.37		
DRO >C10-C28*	81.3	10.0	01/14/2025	ND	172	85.8	200	2.80		
EXT DRO >C28-C36	71.5	10.0	01/14/2025	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS 05 1' (H250135-05)

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	01/14/2025	ND	1.79	89.6	2.00	0.450		
Toluene*	<0.050	0.050	01/14/2025	ND	1.95	97.5	2.00	0.213		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.92	96.0	2.00	0.110		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.65	94.1	6.00	0.210		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	87.9	200	2.37		
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	172	85.8	200	2.80		
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND						

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	OLD CANYON RANCH 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS 06 1' (H250135-06)

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	01/14/2025	ND	1.79	89.6	2.00	0.450	
Toluene*	<0.050	0.050	01/14/2025	ND	1.95	97.5	2.00	0.213	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.92	96.0	2.00	0.110	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.65	94.1	6.00	0.210	
Total BTEX	<0.300	0.300	01/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	01/14/2025	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	01/14/2025	ND	176	87.9	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	172	85.8	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 108 % 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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Notes and Definitions

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

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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: Samantha Mackenzie
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 703-357-3545 Fax #:
 Project #: 03B1417205 Project Owner:
 Project Name: Old Ranch Canyon 7 Federal #001
 Project Location: 32.4107875, -104.5352631
 Sampler Name: Mario Sarkis

BILL TO
 P.O. #:
 Company: Oxy
 Attn: Wade Dittrich
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

ANALYSIS REQUEST

Matrix	Preserv.	Sampling	DATE	TIME	BTX	TPH	Chlorides
			11/01/25	1228	✓	✓	✓
				1231	✓	✓	✓
				1235	✓	✓	✓
				1243	✓	✓	✓
				1302	✓	✓	✓
				1304	✓	✓	✓

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE
#250135												
1	FS01	1	C			✓			✓			
2	FS02	1	C			✓			✓			
3	FS03	1	C			✓			✓			
4	FS04	1	C			✓			✓			
5	FS05	1	C			✓			✓			
6	FS06	1	C			✓			✓			

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Relinquished By:
 Date: 11/25
 Time: 11:50

Received By:
 Date:
 Time:
 Received By:

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 smackenzie@ensolum.com / msarkis@ensolum.com / kthompson@ensolum.com

REMARKS:
 Incident #: NMLB0432755192

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

Observed Temp. °C 4.2
 Corrected Temp. °C 3.6

Sample Condition
 Cool Intact
 Yes No

CHECKED BY: (Initials)
 AP

Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No
 No No Corrected Temp. °C

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



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

February 06, 2025

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

RE: OLD RANCH CANYON 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 02/03/25 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 23 4.5' (H250607-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	608	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 31 4' (H250607-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	432	16.0	02/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891		
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817		
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND						

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 33 3' (H250607-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	80.0	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 39 4' (H250607-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	336	16.0	02/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891		
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817		
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND						

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 46 4' (H250607-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	208	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 49 4' (H250607-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/04/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	416	16.0	02/04/2025	ND	480	120	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891		
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817		
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND						

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 50 4' (H250607-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/04/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	400	16.0	02/04/2025	ND	480	120	400	3.39	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 51 4' (H250607-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/04/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	208	16.0	02/04/2025	ND	480	120	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 54 4' (H250607-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/04/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	496	16.0	02/04/2025	ND	480	120	400	3.39	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 57 5' (H250607-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/04/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/04/2025	ND	480	120	400	3.39	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 27 5' (H250607-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/04/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	464	16.0	02/04/2025	ND	480	120	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 29 3' (H250607-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/04/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	688	16.0	02/04/2025	ND	480	120	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 03 0-7' (H250607-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	1.99	99.4	2.00	5.45	
Toluene*	<0.050	0.050	02/04/2025	ND	2.13	106	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.06	103	2.00	5.14	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.44	107	6.00	5.56	
Total BTEX	<0.300	0.300	02/04/2025	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	64.0	16.0	02/04/2025	ND	480	120	400	3.39	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 06 0-7' (H250607-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	1.99	99.4	2.00	5.45	
Toluene*	<0.050	0.050	02/04/2025	ND	2.13	106	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.06	103	2.00	5.14	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.44	107	6.00	5.56	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/04/2025	ND	480	120	400	3.39	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 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.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-2

Company Name: Ensolum, LLC			BILL TO				ANALYSIS REQUEST															
Project Manager: Samantha MacKenzie			P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> </div>															
Address: 601 N Marienfeld Street, suite 400			Company: OXY USA Inc.																			
City: Midland		State: TX	Zip: 79701		Attn: Wade Dittrich																	
Phone #: 703-357-3545		Fax #:		Address:																		
Project #: 03B1417205		Project Owner:		City:																		
Project Name: Old Ranch Canyon 7 Federal #001			State:		Zip:																	
Project Location: 32.4107857, -104.5352631			Phone #:																			
Sampler Name: Uriel Santillana			Fax #:																			
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX												PRESERV.	SAMPLING				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
H250607																						
1	FS23	4.5'	✓	1			X					X		11/31/25	1115	X	X					
2	FS31	4'													1112							
3	FS33	3'													1457							
4	FS39	4'													1009							
5	FS40	4'													1456							
6	FS49	4'													957							
7	FS50	4'													1005							
8	FS51	4'													1038							
9	FS54	4'													1348							
10	FS57	5'													1454							

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Relinquished By:	Date: 3-3-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 1200		All Results are emailed. Please provide Email address: smackenzie@ensolum.com kthomason@ensolum.com usantillana@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 1.3 Corrected Temp. °C: 1.6	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)
		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C
		Thermometer ID #113 #140 Correction Factor: 0.5°C + 0.3°C	

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha MacKenzie
Address: 601 N Marienfeld Street, suite 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3545 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Ranch Canyon 7 Federal #001
Project Location: 32.4107857, -104.5352631
Sampler Name: Uriel Santillana
BILL TO ANALYSIS REQUEST
Lab I.D. Sample I.D. Depth (feet) MATRIX PRESERV. SAMPLING
H250207 FS27 5' GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER: DATE TIME
12 FS29 3' X X X
13 SW03 0-7' X X X
14 SW06 0-7' X X X

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Relinquished By: [Signature] Date: 2-3-25 Time: 1200 Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #:
REMARKS:
Delivered By: (Circle One) Observed Temp. °C 1.3 Sample Condition Cool Intact CHECKED BY: Turnaround Time: Standard [X] Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other: Corrected Temp. °C 1.6 [] Yes [] Yes [] No [] No [] Yes [] Yes [] No [] No Corrected Temp. °C

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



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

February 06, 2025

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

RE: OLD RANCH CANYON 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 02/03/25 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 07 1' (H250609-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	1.86	92.8	2.00	0.481	
Toluene*	<0.050	0.050	02/04/2025	ND	2.01	101	2.00	0.220	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.99	99.6	2.00	0.0369	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.16	103	6.00	0.924	
Total BTEX	<0.300	0.300	02/04/2025	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	96.0	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 08 1' (H250609-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	1.86	92.8	2.00	0.481		
Toluene*	<0.050	0.050	02/04/2025	ND	2.01	101	2.00	0.220		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.99	99.6	2.00	0.0369		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.16	103	6.00	0.924		
Total BTEX	<0.300	0.300	02/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606		
DRO >C10-C28*	396	10.0	02/04/2025	ND	191	95.3	200	0.672		
EXT DRO >C28-C36	176	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 09 1' (H250609-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	1.86	92.8	2.00	0.481	
Toluene*	<0.050	0.050	02/04/2025	ND	2.01	101	2.00	0.220	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.99	99.6	2.00	0.0369	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.16	103	6.00	0.924	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	128	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	774	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	291	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 10 1' (H250609-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	1.86	92.8	2.00	0.481	
Toluene*	<0.050	0.050	02/04/2025	ND	2.01	101	2.00	0.220	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.99	99.6	2.00	0.0369	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.16	103	6.00	0.924	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	44.1	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	14.3	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 11 1' (H250609-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	1.86	92.8	2.00	0.481	
Toluene*	<0.050	0.050	02/04/2025	ND	2.01	101	2.00	0.220	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.99	99.6	2.00	0.0369	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.16	103	6.00	0.924	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	11.1	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 12 1' (H250609-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 01 0-1' (H250609-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	366	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	115	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 13 1.5' (H250609-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	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	448	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 17 1' (H250609-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 18 1' (H250609-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	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	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/28/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 14 3' (H250609-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 15 5' (H250609-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/04/2025	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	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 19 5' (H250609-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 20 5' (H250609-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	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	400	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 87.8 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 16 7' (H250609-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	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	320	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 87.4 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 25 1' (H250609-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	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	32.0	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 26 1' (H250609-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 28 1' (H250609-18)

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	02/04/2025	ND	2.51	125	2.00	3.34		
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87		
Total BTEX	<0.300	0.300	02/04/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427		
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850		
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND						

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 02 0-7' (H250609-19)

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	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	15.8	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 04 0-7' (H250609-20)

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	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	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	256	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 05 0-7' (H250609-21)

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	02/04/2025	ND	2.51	125	2.00	3.34	
Toluene*	<0.050	0.050	02/04/2025	ND	2.46	123	2.00	5.40	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.56	128	2.00	4.71	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	7.72	129	6.00	5.87	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	240	16.0	02/04/2025	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	02/04/2025	ND	199	99.7	200	0.0427	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	188	94.1	200	0.0850	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC			BILL TO				ANALYSIS REQUEST																			
Project Manager: Samantha MacKenzie			P.O. #:																							
Address: 601 N Marienfeld Street, suite 400			Company: OXY USA Inc.																							
City: Midland		State: TX	Zip: 79701		Attn: Wade Dittrich																					
Phone #: 703-357-3545		Fax #:		Address:																						
Project #: 03B1417205		Project Owner:		City:																						
Project Name: Old Ranch Canyon 7 Federal #001			State:		Zip:																					
Project Location: 32.4107857, -104.5352631			Phone #:																							
Sampler Name: Uriel Santillana			Fax #:																							
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME											
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:													
H250609																Chlorides	BTEX	TPH								
11	FS14	3'	C	1			X				X		1/28/25	1416	X	X	X									
12	FS15	5'											1/29/25	905												
13	FS14	5'											1/29/25	915												
14	FS20	5'												1000												
15	FS16	7'												1058												
16	FS25	1'												1230												
17	FS26	1'												1235												
18	FS28	1'												1240												
19	SW02	0-7'												1355												
20	SW04	0-7'												1350												

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Relinquished By:	Date: 2-3-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 7:20		All Results are emailed. Please provide Email address: smackenzie@ensolum.com kthomason@ensolum.com usantillana@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C 1.3	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.6	CHECKED BY: (Initials)	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 #140 Correction Factor 0.5°C +0.3°C <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Samantha MacKenzie
Address: 601 N Marienfeld Street, suite 400
City: Midland State: TX Zip: 79701
Phone #: 703-357-3545 Fax #:
Project #: 03B1417205 Project Owner:
Project Name: Old Ranch Canyon 7 Federal #001
Project Location: 32.4107857, -104.5352631
Sampler Name: Uriel Santillana
BILL TO ANALYSIS REQUEST
Lab I.D. Sample I.D. Depth (feet) (G)RAB OR (C)OMP. # CONTAINERS MATRIX PRESERV. SAMPLING
H250609 21 SW05 0-7' C 1 X X X
DATE TIME 1/29/25 1400
Chlorides BTEX TPH

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Relinquished By: U Santillana Date: 2-3-25 Time: 1200 Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #: smackenzie@ensolum.com kthomason@ensolum.com usantillana@ensolum.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C 1.3 Corrected Temp. °C 1.6 Sample Condition Cool Intact Yes No Checked By: (Initials) Turnaround Time: Standard Rush Bacteria (only) Cool Intact Sample Condition Observed Temp. °C Corrected Temp. °C

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



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

February 10, 2025

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

RE: OLD RANCH CANYON 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 32 3' (H250653-01)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/05/2025	ND	432	108	400	0.00	

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

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 34 7' (H250653-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	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	384	16.0	02/05/2025	ND	432	108	400	0.00	

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

Surrogate: 1-Chlorooctane 102 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 35 1' (H250653-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/05/2025	ND	432	108	400	0.00	

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

Surrogate: 1-Chlorooctane 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 36 1' (H250653-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 37 1' (H250653-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 38 3' (H250653-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 40 2' (H250653-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 41 1' (H250653-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 42 1' (H250653-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	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	272	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 43 3' (H250653-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/05/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 44 3' (H250653-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 47 1' (H250653-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2025	ND	1.97	98.6	2.00	0.308	
Toluene*	<0.050	0.050	02/06/2025	ND	2.14	107	2.00	0.769	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.16	108	2.00	0.260	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	6.67	111	6.00	0.0872	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 48 1' (H250653-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	1.75	87.6	2.00	1.47	
Toluene*	<0.050	0.050	02/05/2025	ND	1.91	95.7	2.00	1.19	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	1.92	96.1	2.00	0.870	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.01	100	6.00	0.336	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 52 3' (H250653-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	1.75	87.6	2.00	1.47	
Toluene*	<0.050	0.050	02/05/2025	ND	1.91	95.7	2.00	1.19	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	1.92	96.1	2.00	0.870	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.01	100	6.00	0.336	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 53 3' (H250653-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	1.75	87.6	2.00	1.47	
Toluene*	<0.050	0.050	02/05/2025	ND	1.91	95.7	2.00	1.19	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	1.92	96.1	2.00	0.870	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.01	100	6.00	0.336	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 60 3' (H250653-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	1.75	87.6	2.00	1.47	
Toluene*	<0.050	0.050	02/05/2025	ND	1.91	95.7	2.00	1.19	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	1.92	96.1	2.00	0.870	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.01	100	6.00	0.336	
Total BTEX	<0.300	0.300	02/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	512	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	01/30/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 61 3' (H250653-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	1.75	87.6	2.00	1.47	
Toluene*	<0.050	0.050	02/05/2025	ND	1.91	95.7	2.00	1.19	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	1.92	96.1	2.00	0.870	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.01	100	6.00	0.336	
Total BTEX	<0.300	0.300	02/05/2025	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	400	16.0	02/05/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	196	97.8	200	1.69	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	192	96.1	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																					
Project Manager: Samantha MacKenzie				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> </div>																					
Address: 601 N Marienfeld Street, suite 400				Company: OXY USA Inc.																									
City: Midland		State: TX		Zip: 79701		Attn: Wade Dittrich																							
Phone #: 703-357-3545		Fax #:		Address:																									
Project #: 03B1417205		Project Owner:		City:																									
Project Name: Old Ranch Canyon 7 Federal #001				State:																Zip:									
Project Location: 32.4107857, -104.5352631				Phone #:																									
Sampler Name: Uriel Santillana				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (COMP.)	# CONTAINERS	MATRIX						PRESERV.		SAMPLING																
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
HZSD0653	FS44	3'	U	1			X					X	1/30/25	958	X	X	X												
11	FS47	1'												944															
12	FS48	1'												935															
13	FS52	3'												1004															
14	FS53	3'												1001															
15	FS60	3'												1030															
16	FS61	3'												1007															
17																		US											

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Relinquished By: <i>U Santillana</i>	Date: 2-4-25	Received By: <i>Juana Delgado</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: smackenzie@ensolum.com kthomason@ensolum.com usantillana@ensolum.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 1.3	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: (Initials) <i>U.S.</i>	REMARKS:
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Corrected Temp. °C: 1.4	Thermometer ID: #113-#140	Correction Factor: 0.5°C	Bacteria (only) Cool Intact <input type="checkbox"/> Observed Temp. °C
				Sample Condition Observed Temp. °C

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



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

February 19, 2025

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

RE: OLD RANCH CANYON 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 02/13/25 14:25.

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.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 10 2' (H250886-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	160	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 11 2' (H250886-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 30 6' (H250886-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	528	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 45 6' (H250886-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	432	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 59 6' (H250886-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	512	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 07 0-6' (H250886-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	256	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 08 0-6' (H250886-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 10 0-6.5' (H250886-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	384	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 29 5' (H250886-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 55 6.5' (H250886-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	224	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 56 6.5' (H250886-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	384	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 58 6.5' (H250886-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	288	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 21 4' (H250886-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 22 4' (H250886-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	528	16.0	02/14/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

February 21, 2025

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

RE: OLD RANCH CANYON 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 02/17/25 17:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 04 (4') (H250947-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	02/18/2025	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	02/18/2025	ND	211	105	200	0.663	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	195	97.3	200	0.388	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 102 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 08 (2') (H250947-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2025	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	02/18/2025	ND	211	105	200	0.663	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	195	97.3	200	0.388	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 09 (2') (H250947-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	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	80.0	16.0	02/18/2025	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	02/18/2025	ND	211	105	200	0.663	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	195	97.3	200	0.388	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 10 (4') (H250947-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	304	16.0	02/18/2025	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	02/18/2025	ND	211	105	200	0.663	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	195	97.3	200	0.388	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 106 % 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
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 11 (2') (H250947-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/18/2025	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	02/18/2025	ND	187	93.4	200	2.12	
DRO >C10-C28*	10.4	10.0	02/18/2025	ND	189	94.4	200	9.04	
EXT DRO >C28-C36	18.9	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 23 (9') (H250947-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	176	16.0	02/18/2025	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	02/18/2025	ND	187	93.4	200	2.12	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	189	94.4	200	9.04	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 29 (7') (H250947-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	368	16.0	02/18/2025	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	02/18/2025	ND	187	93.4	200	2.12	
DRO >C10-C28*	<10.0	10.0	02/18/2025	ND	189	94.4	200	9.04	
EXT DRO >C28-C36	<10.0	10.0	02/18/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/17/2025	Sampling Date:	02/17/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	** (See Notes)
Project Number:	03B1417205	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 01 (0-1') (H250947-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.15	108	2.00	4.67	
Toluene*	<0.050	0.050	02/19/2025	ND	2.22	111	2.00	3.92	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.30	115	2.00	3.90	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.12	119	6.00	3.54	
Total BTEX	<0.300	0.300	02/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/18/2025	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	02/19/2025	ND	213	106	200	2.85	
DRO >C10-C28*	386	10.0	02/19/2025	ND	199	99.7	200	3.52	
EXT DRO >C28-C36	48.6	10.0	02/19/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ENSOLUM, LLC		BILL TO		ANALYSIS REQUEST									
Project Manager: SAMANTHA MACKENZIE		P.O. #:											
Address: 601 N MARIENFIELD		Company:											
City: MIDLAND State: TX Zip: 79701		Attn: WADE DITTRICH											
Phone #: 703 357 3545 Fax #:		Address:											
Project #: 03B1417205 Project Owner: OX7		City:											
Project Name: EDDY COUNTY		State: Zip:											
Project Location: OLD RANCH CANYON 7 FEDERAL #001		Phone #:											
Sampler Name: UDEH AZUKA		Fax #:											

FOR LAB USE ONLY		G/RAB OR C/COMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	BTEX 8021	TPH 8015	CHLORIDE 4500
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
A250947	1 FS04 (4')	C			X				X			2/7/25	0958	X	X	X		
	2 FS08 (2')	C			X				X				1000	X	X	X		
	3 FS09 (2')	C			X				X				1002	X	X	X		
	4 FS10 (4')	C			X				X				1310	X	X	X		
	5 FS11 (2')	C			X				X				1006	X	X	X		
	6 FS23 (5')	C			X				X				1430	X	X	X		
	7 FS29 (7')	C			X				X				1450	X	X	X		
	8 SW01 (0-1')	C			X				X			2/7/25	1012	X	X	X		

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Relinquished By:	Date: 2-17-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: 2/17/25	Time: 1710	Received By:	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)	Observed Temp. °C 9.7	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 10.0	CHECKED BY: (Initials) JS	Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> No
			Correction Factor +0.3°C	<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

FORM-000 R 3.0 02/12/20

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



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

March 10, 2025

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

RE: OLD RANCH CANYON 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 03/04/25 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	02/28/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 01 0-1' (H251281-01)

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	03/05/2025	ND	2.08	104	2.00	3.23	
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65	
Total BTEX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	48.0	16.0	03/05/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	02/28/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 08 0-6' (H251281-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2025	ND	2.08	104	2.00	3.23	
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65	
Total BTEX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	592	16.0	03/05/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	02/28/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: FS 24 4.5' (H251281-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2025	ND	2.08	104	2.00	3.23		
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	496	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 99.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	02/28/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	OLD RANCH CANYON 7 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	03B1417205	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.4107857,-104.5352631		

Sample ID: SW 09 0-4' (H251281-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2025	ND	2.08	104	2.00	3.23	
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65	
Total BTEX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	592	16.0	03/05/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

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

QUESTIONS

Action 442981

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 442981
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB0432755192
Incident Name	NMLB0432755192 OLD RANCH CANYON 7 FEDERAL #001 @ 30-015-28011
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-28011] OLD RANCH CANYON 7 FEDERAL #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	OLD RANCH CANYON 7 FEDERAL #001
Date Release Discovered	11/10/2004
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Coupling Produced Water Released: 290 BBL Recovered: 260 BBL Lost: 30 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)	Not answered.

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QUESTIONS, Page 2

Action 442981

QUESTIONS (continued)

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	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.

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 03/17/2025
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QUESTIONS, Page 3

Action 442981

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 442981
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	33200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1088
GRO+DRO (EPA SW-846 Method 8015M)	822
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	08/29/2024
On what date will (or did) the final sampling or liner inspection occur	02/28/2025
On what date will (or was) the remediation complete(d)	02/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	21415
What is the estimated volume (in cubic yards) that will be reclaimed	2144
What is the estimated surface area (in square feet) that will be remediated	21415
What is the estimated volume (in cubic yards) that will be remediated	2144

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

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

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QUESTIONS, Page 4

Action 442981

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 442981
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and 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

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 03/17/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 442981

QUESTIONS (continued)

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QUESTIONS

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

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QUESTIONS, Page 6

Action 442981

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	435324
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/28/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	15367

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	21415
What was the total volume (cubic yards) remediated	2144
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	21415
What was the total volume (in cubic yards) reclaimed	2144
Summarize any additional remediation activities not included by answers (above)	NA

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 03/17/2025
--	---

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Action 442981

QUESTIONS (continued)

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	Action Number: 442981
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No

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CONDITIONS

Action 442981

CONDITIONS

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

Created By	Condition	Condition Date
nvez	None	6/11/2025