



March 5, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
Cedar Canyon 16 State #010H
Incident Number NAB1917133761
API 30-015-42055
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Closure Request* to document assessment, delineation, and soil sampling activities performed at the Cedar Canyon 16 State #010H (Site). The purpose of the Site assessment, delineation, and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a crude oil and produced water release at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting closure for Incident Number NAB1917133761.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 16, Township 24 South, Range 29 East, in Eddy County, New Mexico (32.224119°, -103.993254°) and is associated with oil and gas exploration and production operations on private land.

On June 8, 2019, there was an equipment failure on a flowline that resulted in 40 barrels (bbls) of produced water and 20 bbls of crude oil to be released; 38 bbls of produced water and 18 bbls of crude oil were recovered. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 14, 2019. The release was assigned Incident Number NAB1917133761.

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 are summarized below.

Depth to groundwater at the Site is reasonably estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer C 04778 POD1, located approximately 0.8 miles east of the Site. The groundwater well was drilled during October 2023 to a total depth of 40

Oxy USA Inc.
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feet bgs, with a measured depth to groundwater at 18 feet bgs on October 3, 2023. The associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a stream bed, located approximately 180 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is located within a 100-year floodplain but is not overlying a subsurface mine. The Site is in a medium potential karst designation area, however the release and a majority of the remedial activities occurred prior to December 1, 2024, the effective date of the NMOCD published Karst Potential Occurrence Zones Public Notice. A Closure Criteria Map is presented on Figure 4.

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

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

SOIL SAMPLING ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between July 2, 2024, and August 1, 2024, Ensolum personnel conducted Site assessment activities to evaluate the release extent based on information provided on the Form C-141 and visual observations. Composite soil samples were collected from within the release area (FS01 through FS08) at a depth of approximately 0.5 feet bgs, and composite soil samples were collected from the outer edges of the release area (SW01, SW02, and SW03) at a depth of 0-0.5 feet bgs to assess the presence or absence of impacted soil resulting from the produced water and crude oil release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment samples FS01 through FS08 and SW01 through SW03, collected within the release area, were compliant with the Closure Criteria and thus successfully defined the vertical and lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

Based on laboratory analytical results from the confirmation soil samples indicating no impacted soil existed at the Site, Oxy submitted a *Closure Request* detailing the soil sampling activities on January 3, 2025.

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On January 7, 2025, NMOCD rejected the *Closure Request* for the following reasons:

“Remediation closure denied. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1). (a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1). (a) NMAC. Sampling notices were submitted for 7/25/24 and 7/26/24 but samples were collected on 7/2/24 and 8/1/24. As this release is greater than 5 years old, discrete delineation samples will need to be collected within the release footprint at surface, 1’, 2’, 3’, and 4’ before closure can be approved. Submit remediation closure report to the OCD by 3/10/25.”

Correspondence is included as Appendix D.

On February 4, 2025, Ensolum personnel returned to the Site to collect composite soil samples within the release area (FS01 through FS08) at a depth of approximately 0.5 feet bgs and composite soil samples (SW01 through SW03) at a depth of 0-0.5 feet bgs collected from the outer edges of the release area to assess the presence or absence of impacted soil resulting from the produced water and crude oil release.

In addition, delineation potholes within the release area (PH-01 through PH-03) were advanced from depths ranging from 1 foot bgs to 4 feet bgs. Discrete delineation soil samples were collected from each pothole and field screened for VOCs and chloride. All soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were handled and transported as described above at Cardinal in Hobbs, New Mexico.

Laboratory analytical results for confirmation soil samples FS01 through FS08 and SW01 through SW03, collected within the release area, indicated all COCs were compliant with the Closure Criteria and thus successfully defined lateral extent of the release. Laboratory analytical results for delineation soil samples PH01 through PH03 collected at depths ranging from 1 foot bgs to 4 feet bgs indicated all COC concentrations were compliant with the Closure Criteria and successfully defined the vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to address the June 8, 2019, release of produced water and crude oil. Laboratory analytical results for the assessment soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed the absence of impacted soil following the release. Based on the laboratory analytical results, no further remediation is required.

Oxy believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, Oxy respectfully requests closure for Incident Number NAB1917133761.

Oxy USA Inc.
Closure Request
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If you have any questions or comments, please contact Mr. Beaux Jennings at BJennings@ensolum.com or (210) 219-8858.

Sincerely,
Ensolum, LLC

A handwritten signature in cursive script that reads "Samantha MacKenzie".

Samantha MacKenzie
Staff Geologist

A handwritten signature in cursive script that reads "Beaux Jennings".

Beaux Jennings
Associate Principal

cc: Wade Dittrich, Oxy USA Inc.
Tyson Pierce, Oxy USA Inc.

Appendices:

Figures

Figure 1	Topographic
Figure 2	Site Vicinity
Figure 3	Site Map
Figure 4	Closure Criteria

Table 1 Soil Sample Analytical Results

Appendix A Referenced Well Records

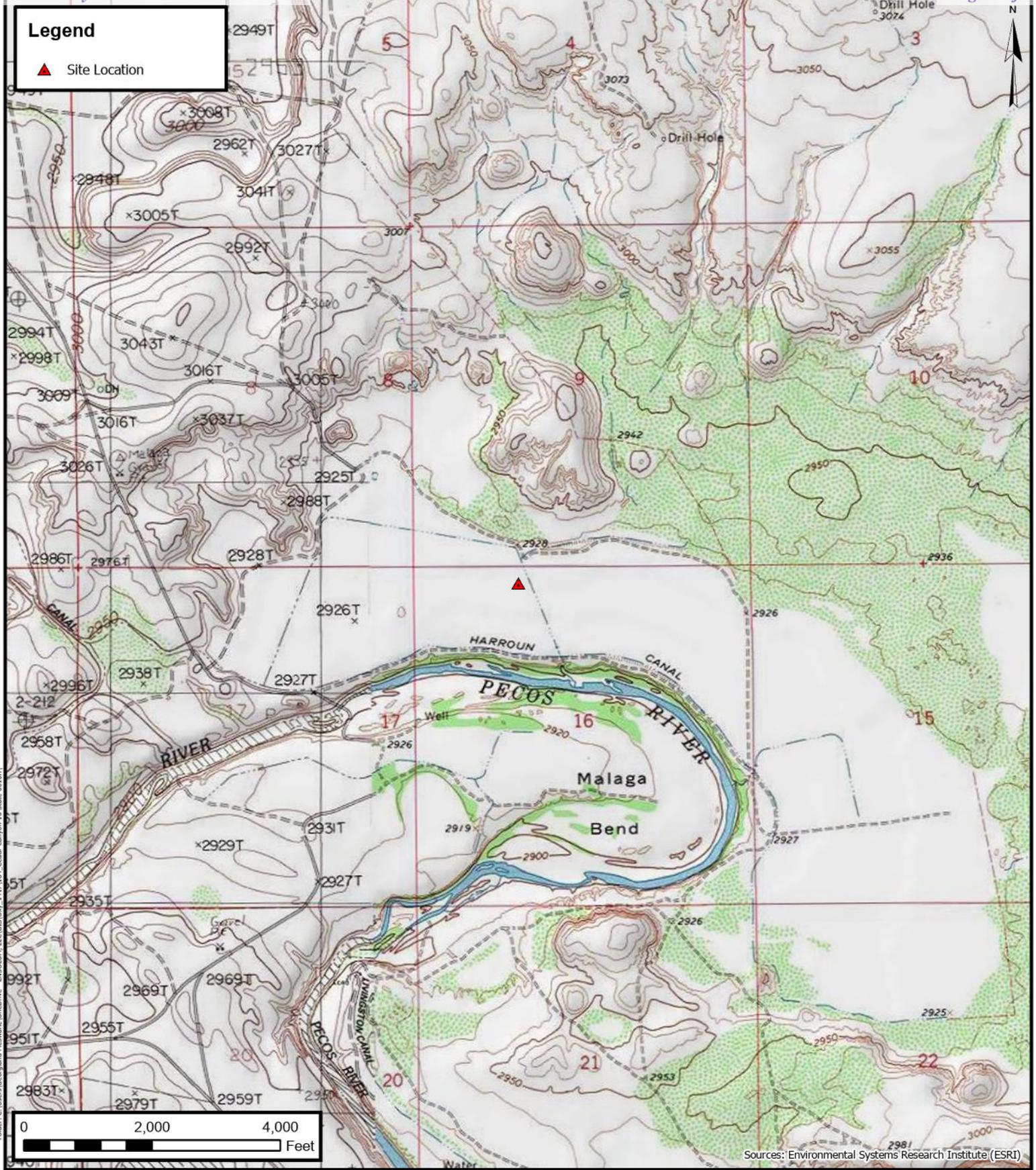
Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D NMOCD Correspondence



FIGURES



Legend

▲ Site Location

Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Doc - 1417184_Cedar Canyon 16 State 0010H

Sources: Environmental Systems Research Institute (ESRI)

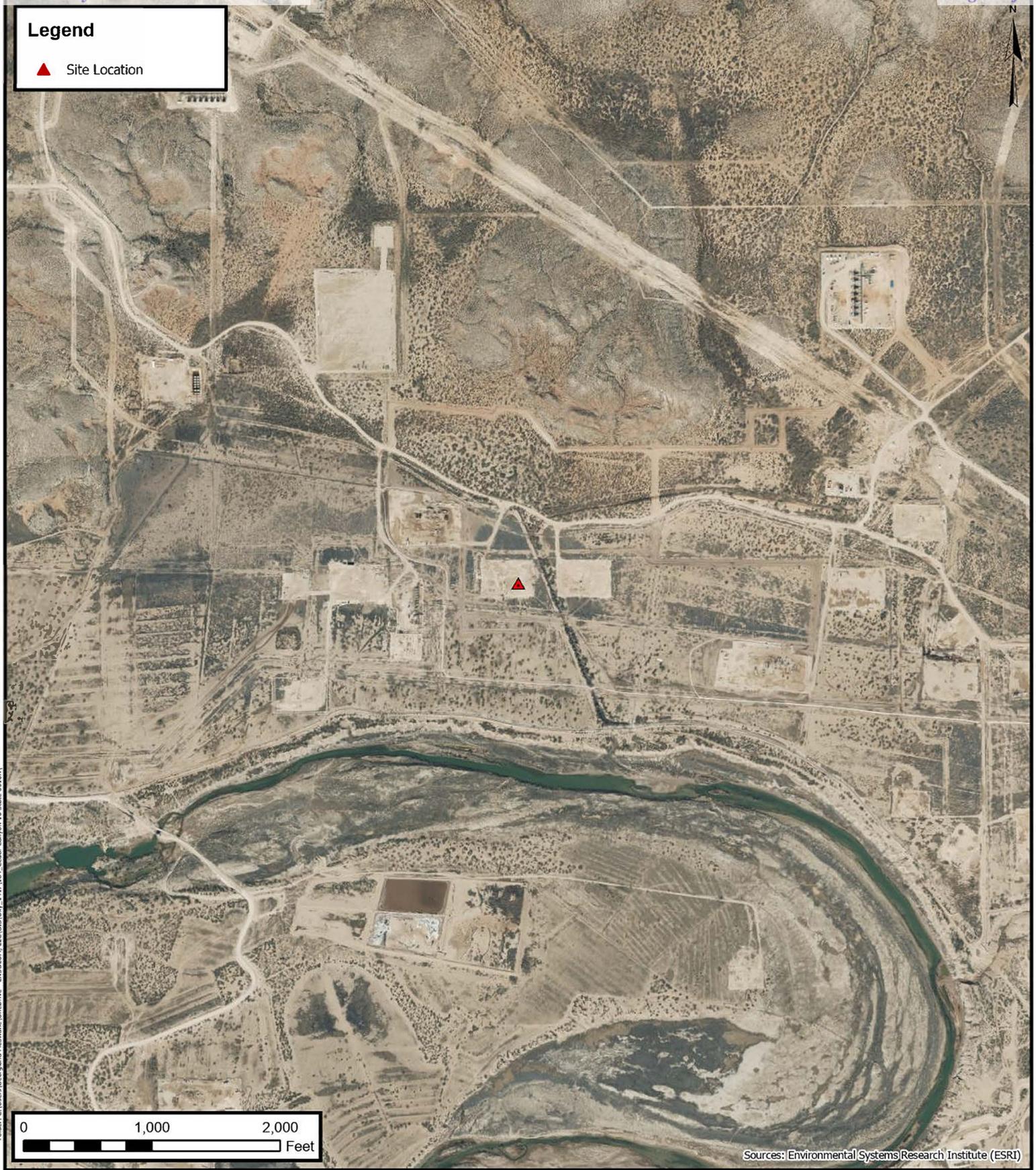
0 2,000 4,000 Feet

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map
 Oxy USA Inc.
 Cedar Canyon 16 State 0010H
 32.224119° N, 103.993254° W
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417184

FIGURE
1



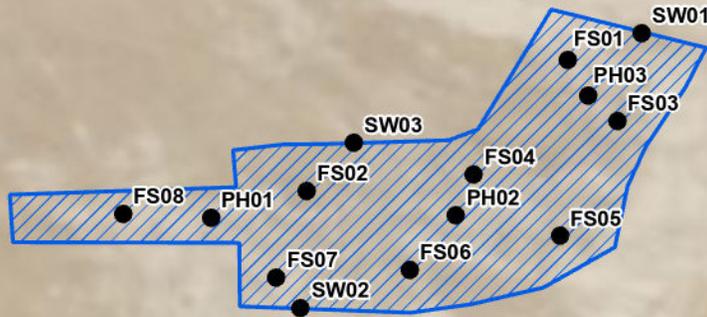
Site Vicinity Map
 Oxy USA Inc.
 Cedar Canyon 16 State 0010H
 32.224119° N, 103.993254° W
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417184

FIGURE
2

Legend

- Confirmation Soil Sample Location
- ▨ Excavation Extent



Sources: Environmental Systems Research Institute (ESRI)



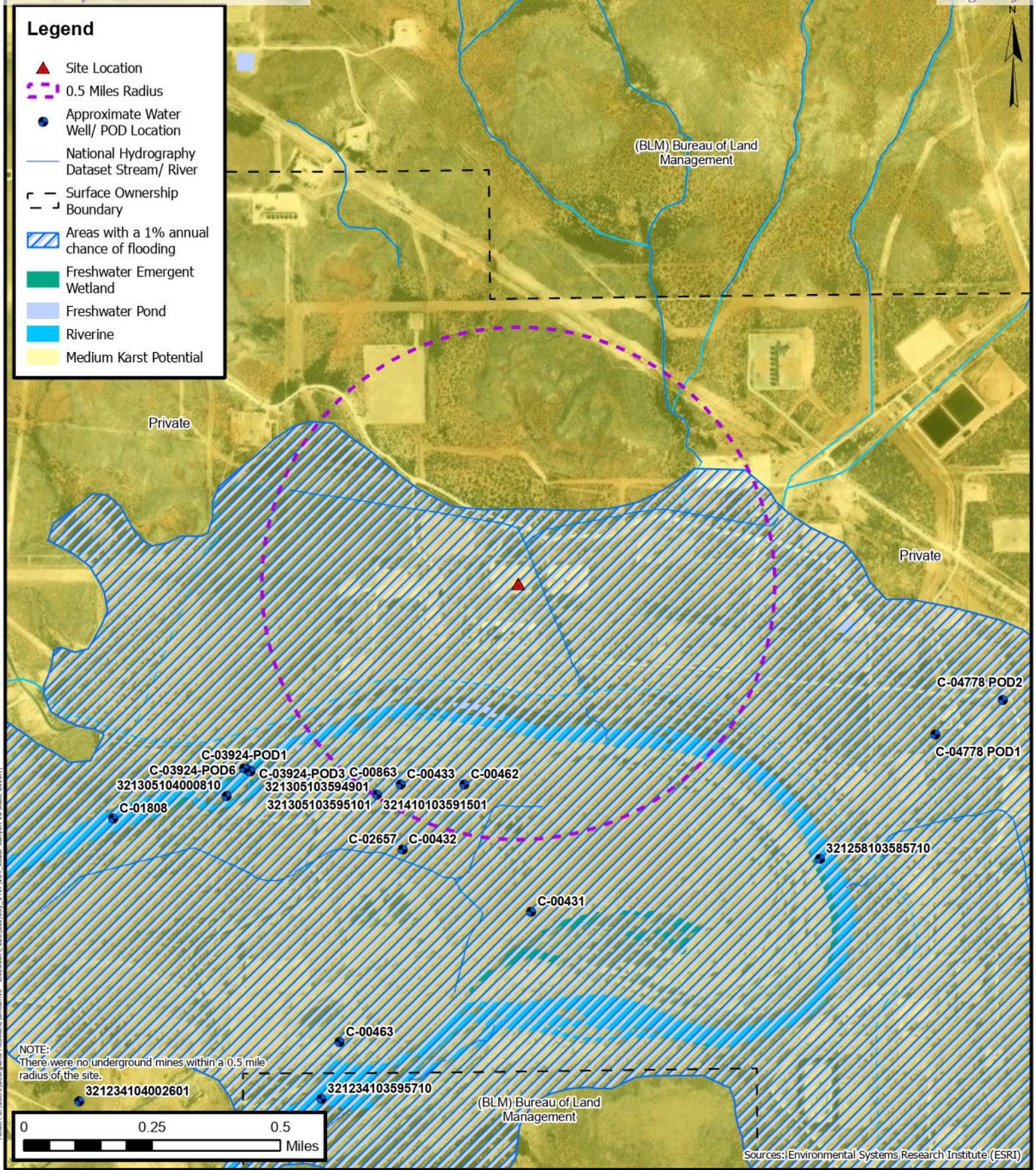
Site Map

Oxy USA Inc.
 Cedar Canyon 16 State 0010H
 32.224119° N, 103.993254° W
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417184

FIGURE

3



Closure Criteria Map
 Oxy USA Inc.
 Cedar Canyon 16 State 0010H
 32.224119° N, 103.993254° W
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417184

FIGURE
4



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Cedar Canyon 16 State 0010H
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417184

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												
FS-01	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
FS-02	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS-03	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
FS-04	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-05	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS-06	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS-07	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS-08	02/04/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
Excavation Sidewall Soil Sample Analytical Results												
SW-01	02/04/2025	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SW-02	02/04/2025	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
SW-03	02/04/2025	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
Pothole Soil Sample Analytical Results												
PH-01	02/04/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
		3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
		4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
PH-02	02/04/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
		3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
		4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
PH-03	02/04/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
		2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
		4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400

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



APPENDIX A

Referenced Well Records



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04778 POD1	1	3	1	15	24S	29E	596200	3565247 

Driller License: 1757 **Driller Company:** ENVIROTECH DRILLING SERVICES LLC

Driller Name: DAVID DRAYBUCK

Drill Start Date: 10/03/2023	Drill Finish Date: 10/03/2023	Plug Date:
Log File Date: 11/06/2023	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 1 GPM
Casing Size: 2.00	Depth Well: 40 feet	Depth Water: 18 feet

Water Bearing Stratifications:	Top	Bottom	Description
	20	30	Sandstone/Gravel/Conglomerate
	30	40	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	15
	15	40

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/31/24 2:55 PM

POINT OF DIVERSION SUMMARY



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04778 POD2	2	3	1	15	24S	29E	596415	3565355 

Driller License: 1757 **Driller Company:** ENVIROTECH DRILLING SERVICES LLC

Driller Name: DAVID DRAYBUCK

Drill Start Date: 10/03/2023	Drill Finish Date: 10/03/2023	Plug Date:
Log File Date: 11/06/2023	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 1 GPM
Casing Size: 2.00	Depth Well: 40 feet	Depth Water: 18 feet

Water Bearing Stratifications:	Top	Bottom	Description
	21	30	Sandstone/Gravel/Conglomerate
	30	40	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	15
	15	40

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/31/24 2:55 PM

POINT OF DIVERSION SUMMARY



APPENDIX B
Photographic Log



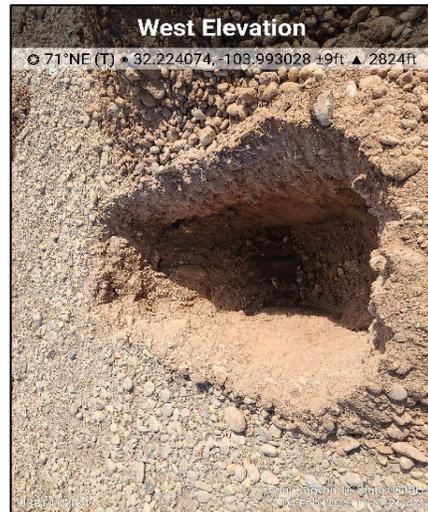
Photographic Log

Oxy USA, inc
Cedar Canyon 16 State 0010H
Incident Number: NAB1917133761



Photograph: 1 Date: 2/4/2025
Description: Site Signage
View: North

Photograph: 2 Date: 2/4/2025
Description: Release footprint
View: South



Photograph: 3 Date: 2/4/2025
Description: Release footprint
View: North

Photograph: 4 Date: 2/4/2025
Description: Delineation activities
View: West



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

February 10, 2025

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

RE: CEDAR CANYON 16 STATE 10H

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 14:41.

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 01 .5' (H250675-01)

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	2.28	114	2.00	1.09	
Toluene*	<0.050	0.050	02/05/2025	ND	2.23	111	2.00	0.634	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.44	122	2.00	0.882	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	7.42	124	6.00	1.67	
Total BTEX	<0.300	0.300	02/05/2025	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	192	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 02 .5' (H250675-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	2.28	114	2.00	1.09	
Toluene*	<0.050	0.050	02/05/2025	ND	2.23	111	2.00	0.634	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.44	122	2.00	0.882	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	7.42	124	6.00	1.67	
Total BTEX	<0.300	0.300	02/05/2025	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	80.0	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 03 .5' (H250675-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	2.28	114	2.00	1.09	
Toluene*	<0.050	0.050	02/05/2025	ND	2.23	111	2.00	0.634	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.44	122	2.00	0.882	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	7.42	124	6.00	1.67	
Total BTEX	<0.300	0.300	02/05/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 04 .5' (H250675-04)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	QM-07
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	QM-07
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	16.0	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 05 .5' (H250675-05)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 06 .5' (H250675-06)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	80.0	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 07 .5' (H250675-07)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	80.0	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: FS - 08 .5' (H250675-08)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: SW - 1 0-.5' (H250675-09)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	144	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: SW - 2 0-.5' (H250675-10)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: SW - 3 0-.5' (H250675-11)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
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	208	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 01 1' (H250675-12)

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	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	32.0	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 01 2' (H250675-13)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/05/2025	ND	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 01 3' (H250675-14)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	112	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 01 4' (H250675-15)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	368	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 02 1' (H250675-16)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2025	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	02/05/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 02 2' (H250675-17)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/05/2025	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	02/06/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/06/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 02 3' (H250675-18)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	02/05/2025	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	02/06/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/06/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 02 4' (H250675-19)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2025	ND	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	02/06/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/06/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 03 1' (H250675-20)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2025	ND	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	02/06/2025	ND	199	99.5	200	4.02	
DRO >C10-C28*	<10.0	10.0	02/06/2025	ND	202	101	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 03 2' (H250675-21)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	32.0	16.0	02/05/2025	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	02/05/2025	ND	218	109	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	219	109	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 03 3' (H250675-22)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	64.0	16.0	02/05/2025	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	02/05/2025	ND	218	109	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	219	109	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2025	Sampling Date:	02/04/2025
Reported:	02/10/2025	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE 10H	Sampling Condition:	Cool & Intact
Project Number:	03B1417184	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO.		

Sample ID: PH - 03 4' (H250675-23)

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	02/06/2025	ND	2.35	117	2.00	0.974	
Toluene*	<0.050	0.050	02/06/2025	ND	2.36	118	2.00	7.09	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.63	132	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	8.00	133	6.00	14.8	
Total BTEX	<0.300	0.300	02/06/2025	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	400	16.0	02/05/2025	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	02/05/2025	ND	218	109	200	2.95	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	219	109	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

2 of 3

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Beaux Jennings
 Address: 601 N. Marlandfield St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 210-219-8858 Fax #:
 Project #: 030417184 Project Owner:
 Project Name: Cedar Creek 16 Storm 0010 H
 Project Location: Eddy Co NM
 Sampler Name: Sharr Diller
 P.O. #:
 Company: Oxy USA, Inc.
 Attn: Wade Dittich
 Address:
 City:
 State: Zip:
 Phone #: 575-390-2828
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX 8021	Chlorides 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
11	SW-03	0-5	C	1	X									2-4-25	1020	X	X	X
12	PH-01		C	1	X									2-4-25	1110	X	X	X
13	PH-01		C	1	X									2-4-25	1112	X	X	X
14	PH-01		C	1	X									2-4-25	1114	X	X	X
15	PH-01		C	1	X									2-4-25	1116	X	X	X
16	PH-02		C	1	X									2-4-25	1126	X	X	X
17	PH-02		C	1	X									2-4-25	1120	X	X	X
18	PH-02		C	1	X									2-4-25	1130	X	X	X
19	PH-02		C	1	X									2-4-25	1132	X	X	X
20	PH-03		C	1	X									2-4-25	1134	X	X	X

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Relinquished By: *[Signature]* Date: 2-4-25 Time: 1441
 Received By: *[Signature]* Date: 2-4-25 Time: 1441
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: B.jennings@ensolum.com
 REMARKS:
 Turnaround Time: Standard Bacteria (only) Sample Condition
 Thermometer ID #43 *thru* Cool Intact
 Correction Factor 45°C x 0.02 Yes No NC No
 Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C: 0.2 Corrected Temp. °C: 0.52
 Sampler - UPS - Bus - Other: Sample Condition Cool Intact Yes No
 CHECKED BY: (Initials) *AB*
 Bacteria (only) Sample Condition Cool Intact Yes No NC No
 Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Beaux Jennings
 Address: 601 N. Marlenfield St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 210-219-8858 Fax #:
 Project #: 0301417184 Project Owner:
 Project Name: Cedeys Creek 16 Stormwater
 Project Location: Eddy Co N.M.
 Sampler Name: Shana Diller
 P.O. #: Company: Oxy USA, Inc.
 Attn: Wade Dittich
 Address:
 City: State: Zip:
 Phone #: 575-390-2828
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H3501075	PH-03	2	C	1								2-4-25	1136	X	X	X
	PH-03	3	C	1								2-4-25	1138	X	X	X
	PH-03	4	C	1								2-4-25	1140	X	X	X

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Relinquished By: [Signature]
 Date: 8-4-25
 Time: 1441
 Received By: [Signature]
 Date: [Blank]
 Time: [Blank]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: [Blank]
 Observed Temp. °C: 0.8°C
 Corrected Temp. °C: 0.5°C
 Sample Condition: Cool Intact [X] Yes [] No []
 CHECKED BY: (Initials) [Signature]
 Turnaround Time: Standard [X] Rush []
 Bacteria (only) Sample Condition: Cool Intact [X] Yes [] No []
 Corrected Temp. °C: [Blank]

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



APPENDIX D

NMOCD Correspondence

From: [Dittrich, John W](#)
To: [Kelly Lowery](#); [Samantha MacKenzie](#)
Cc: [Hadlie Green](#); [Georgiana McSwane](#); [Beaux Jennings](#)
Subject: Fw: The Oil Conservation Division (OCD) has rejected the application, Application ID: 416869
Date: Tuesday, January 7, 2025 3:58:51 PM

[EXTERNAL EMAIL**]**

Cedar Canyon 16 St. 0010H-6/8/2019

Wade Dittrich

Environmental Advisor

New Mexico

575-390-2828

wade_dittrich@oxy.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, January 7, 2025 2:50 PM
To: Dittrich, John W <wade_dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 416869

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 rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1917133761, for the following reasons:

- **Remediation closure denied. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Sampling notices were submitted for 7/25/24 and 7/26/24 but samples were collected on 7/2/24 and 8/1/24.**
- **As this release is greater than 5 years old, discrete delineation samples will need to be collected within the release footprint at surface, 1', 2', 3', and 4' before closure can be approved. Submit remediation closure report to the OCD by 3/10/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 416869.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells

Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 439126

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 439126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1917133761
Incident Name	NAB1917133761 CEDAR CANYON 16 STATE #010H @ 30-015-42055
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42055] CEDAR CANYON 16 STATE #010H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	CEDAR CANYON 16 STATE #010H
Date Release Discovered	06/08/2019
Surface Owner	Private

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 20 BBL Recovered: 18 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 40 BBL Recovered: 38 BBL Lost: 2 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.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 439126

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 439126
	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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 03/05/2025
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Sante Fe Main Office
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 439126

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 439126
	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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Zero feet, overlying, or within area
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)	400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	07/02/2024
On what date will (or did) the final sampling or liner inspection occur	02/04/2025
On what date will (or was) the remediation complete(d)	02/04/2025
What is the estimated surface area (in square feet) that will be reclaimed	1600
What is the estimated volume (in cubic yards) that will be reclaimed	30
What is the estimated surface area (in square feet) that will be remediated	1600
What is the estimated volume (in cubic yards) that will be remediated	30

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 439126

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 439126
	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.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Confirmation soil samples taken every 200 square feet are below the applicable NMOCD Closure Criteria.

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: 03/05/2025
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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 439126

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 439126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 439126

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 439126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	425733
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/05/2025
What was the (estimated) number of samples that were to be gathered	26
What was the sampling surface area in square feet	1583

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	1600
What was the total volume (cubic yards) remediated	30
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	1600
What was the total volume (in cubic yards) reclaimed	30
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: 03/05/2025
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QUESTIONS, Page 7

Action 439126

QUESTIONS (continued)

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	Action Number: 439126
	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 439126

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 439126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	3/12/2025