



ENSOLUM

REVISED CLOSURE REPORT

Property:

North Corridor WPF

Eddy County, New Mexico

32.247 N, 103.787 W

NMOCD Incident ID: nAPP2227954604

August 14, 2023

Ensolum Project No. 03B1417062

Prepared for:

Oxy USA Inc.

P.O. Box 4294

Houston, TX 77210

Attn: Mr. Wade Dittrich

Prepared by:

Beaux Jennings
Senior Project Manager

Heather Holthaus
Senior Project Manager



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ENSOLUM

REVISED CLOSURE REPORT

North Corridor WPF

Eddy County, New Mexico

32.247 N, 103.787 W

NMOCD Incident ID: nAPP2227954604

Ensolum Project No. 03B1417062

1.0 INTRODUCTION

1.1 Executive Summary

- On October 4, 2022, a release of produced water was reported from a transfer pump due to internal corrosion at the North Corridor WPF, hereinafter referred to as the "Site". Approximately 165 barrels (bbls) of produced water were released, with 160 bbls recovered, and impacted an area approximately 150 feet long by 50 feet wide. Oxy contracted Ensolum, LLC (Ensolum) to perform sampling of the release area subsequent to the completion of remediation activities.
- On October 26, 2022, Ensolum arrived on-Site and collected a total of 20 composite soil samples from five locations (PH-1 and PH-5), four from each pothole location at one-foot intervals down to a depth of four feet below ground surface (bgs), within the release area. Additionally, four delineation composite soil samples (BG-1 through BG-4) were collected from a depth of 0-0.25 feet bgs to determine the horizontal and vertical extent of the release.
- On December 28, 2022, Ensolum arrived at the Site and collected a total of 38 composite soil samples from 38 locations (FS-1 through FS-38) within the release area. The composite soil samples were collected from 0-0.25 feet bgs.
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04695-POD1) was installed on January 12, 2023 by Ensolum personnel. The soil boring was installed at the Site. The soil boring was installed to 110 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 110 feet bgs at the Site.
- Based on the laboratory analytical results, no excavation or remediation was required.
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.
- The final release area measured approximately 150 feet long by 50 feet wide.
- On February 23, 2023, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.
- On June 27, 2023, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.
- Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-5 through BG-12) were collected outside of the spill extent on August 8, 2023.

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- Based on the laboratory analytical results, the final soil samples collected from the release area did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria.

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

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	North Corridor WPF
Location:	32.247 N, 103.787 W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2**, the Site Map indicating the locations of composite soil samples is included as **Figure 3**, and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

1.3 Project Objective

The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

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

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.

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- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division’s GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the Bureau of Land Management (BLM), the Site is not located within an unstable area.
- The Site is noted to be located within an area of minimal flood hazard.

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On October 4, 2022, a release of produced water was reported from a transfer pump due to internal corrosion at the Site. Approximately 165 bbls of produced water were released, with 160 bbls recovered, and impacted an area approximately 150 feet long by 50 feet wide. Oxy contracted Ensolum to perform sampling of the release area subsequent to the completion of remediation activities.

On October 26 and December 28, 2022, Ensolum arrived on-Site and collected a total of 58 composite soil samples from 40 locations (PH-1 through PH-5 and FS-1 through FS-38) from within the release area, and four composite soil samples from four locations (BG-1 through BG-4) outside of the release area. The composite soil samples from within the release area were collected at depths ranging from 0-4 feet bgs, and the composite soil samples collected outside of the release area were collected from 0-0.25 feet bgs.

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Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04695-POD1) was installed on January 12, 2023 by Ensolum personnel. The soil boring was installed on the Site. The soil boring was installed to 110 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 110 feet bgs at the Site.

On February 23, 2023, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.

On June 27, 2023, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.

Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-5 through BG-12) were collected outside of the spill extent on August 8, 2023.

The final release area measured approximately 150 feet long by 50 feet wide.

The lithology at the Site consists primarily of a fine-grained red sand with some plasticity.

Figure 3 identifies approximate pothole soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's composite soil sampling program included the collection of a total of 58 composite soil samples from 40 locations (PH-1 through PH-5 and FS-1 through FS-38) from within the release area, and 12 soil samples from 12 locations (BG-1 through BG-12) outside of the release area. The composite soil samples from within the release area were collected at depths ranging from 0-4 feet bgs, and the soil samples collected outside of the release area were collected from 0-0.25 feet bgs.

The soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico for standard laboratory analysis.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-CI B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO, and chloride concentrations associated with the soil samples collected from within the release area (PH-1 through PH-5 and FS-1 through FS-38) and outside the release area (BG-1 through BG-12) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the soil samples are below the laboratory sample detection limits (SDLs), which are below the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.

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- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg.
- Laboratory analytical results indicate chloride concentrations for the soil samples are below the applicable NMOCD Closure Criteria of 20,000 mg/kg.

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

7.0 RECLAMATION AND RE-VEGETATION

Based on the results of the final confirmation soil sampling, no excavation was required; therefore, no reclamation or re-vegetation was required.

8.0 FINDINGS AND RECOMMENDATION

- On October 4, 2022, a release of produced water was reported from a transfer pump due to internal corrosion at the Site. Approximately 165 bbls of produced water were released, with 160 bbls recovered, and impacted an area approximately 150 feet long by 50 feet wide. Oxy contracted Ensolum to perform sampling of the release area subsequent to the completion of remediation activities.
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- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04695-POD1) was installed on January 12, 2023 by Ensolum personnel. The soil boring was installed on the Site. The soil boring was installed to 110 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 110 feet bgs at the Site.
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- Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-5 through BG-12) were collected outside of the spill extent on August 8, 2023.
- Based on the laboratory analytical results, the final soil samples collected from the release area did not exhibit benzene, BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

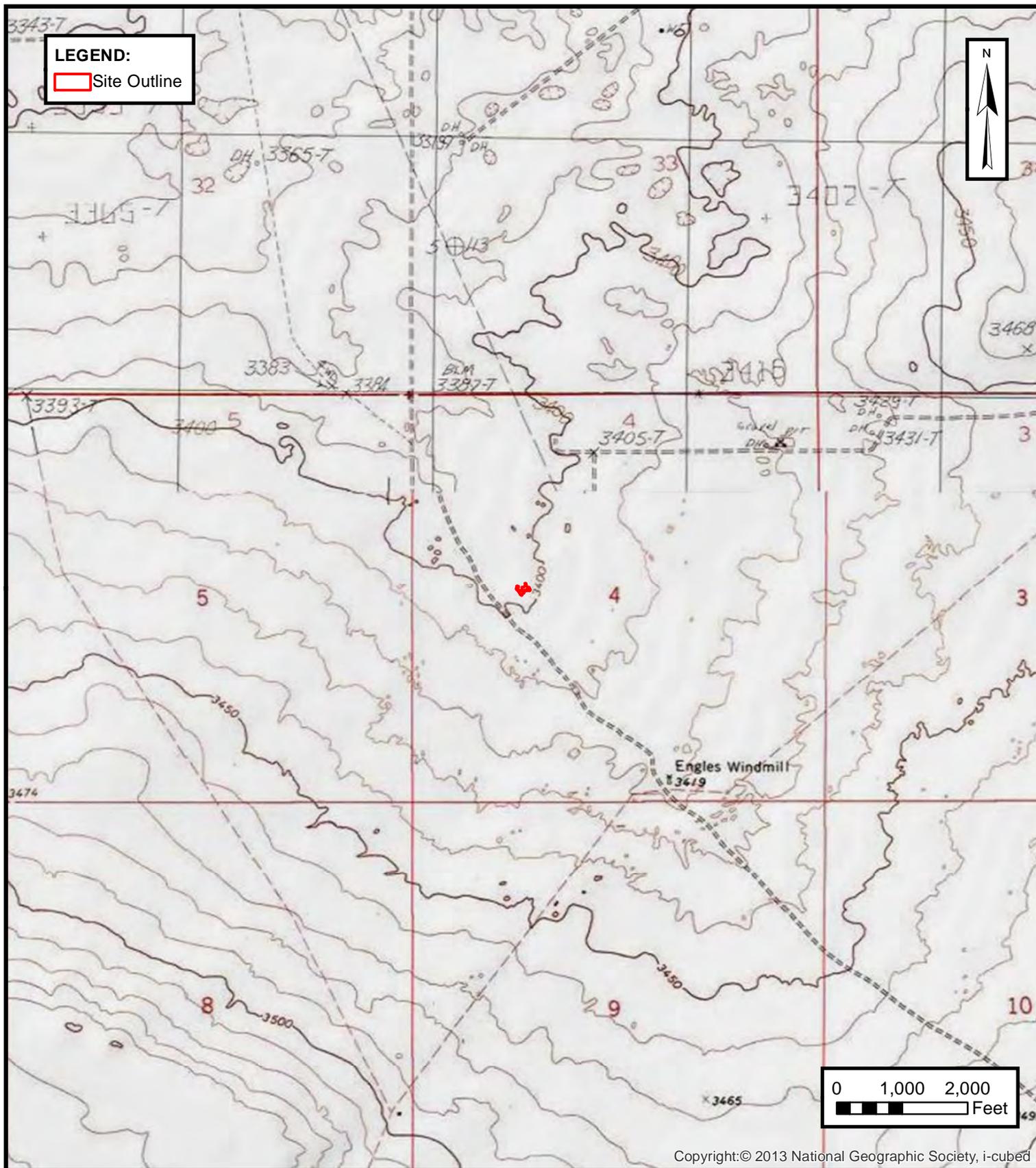
9.3 Reliance

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



APPENDIX A

Figures



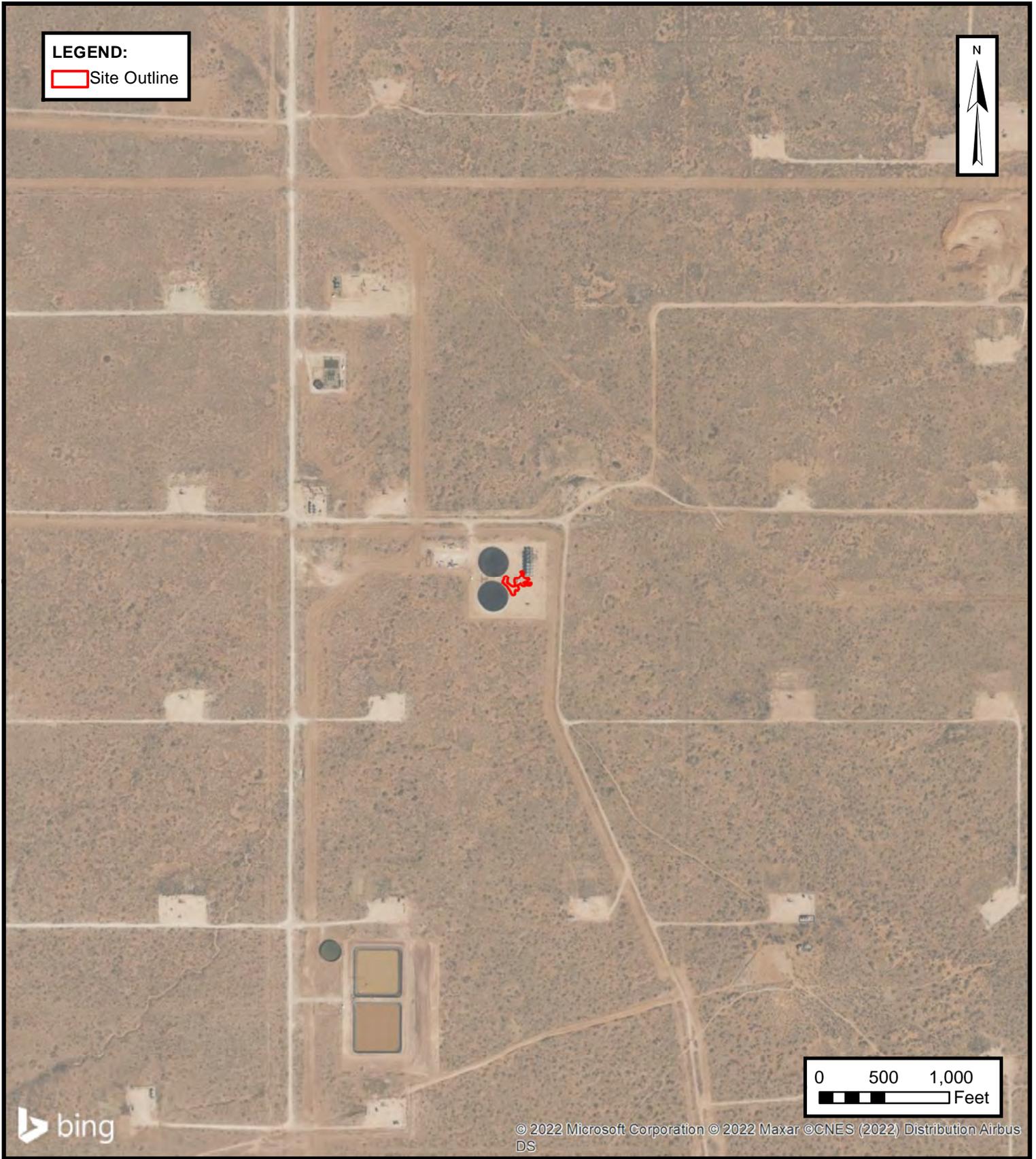
TOPOGRAPHIC MAP

OXY USA INC.
 NORTH CORRIDOR WPF
 Eddy County, New Mexico
 32.247° N, 103.787° W

PROJECT NUMBER: 03B1417062

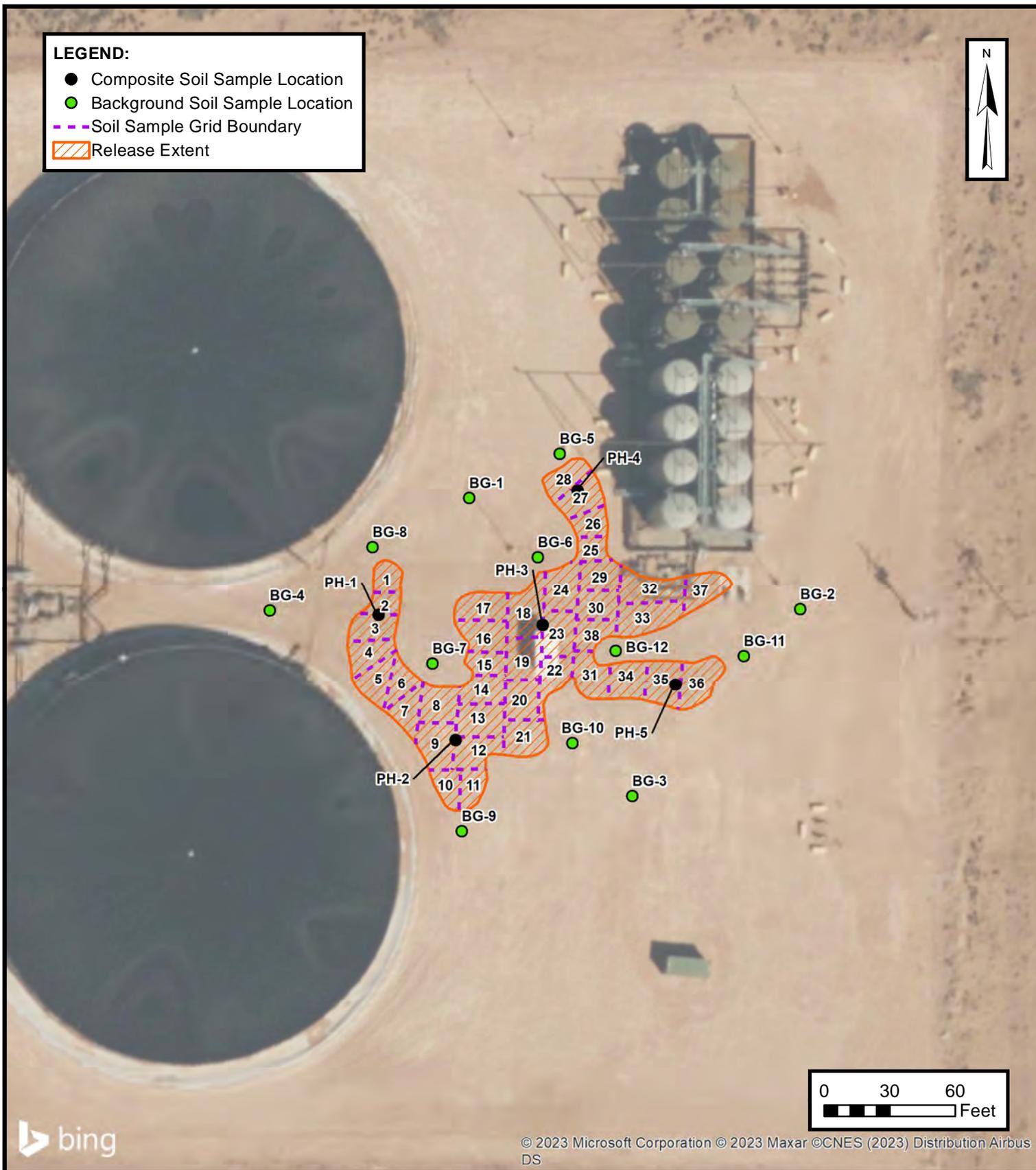
FIGURE

1



SITE VICINITY MAP
OXY USA INC.
NORTH CORRIDOR WPF
Eddy County, New Mexico
32.247° N, 103.787° W
PROJECT NUMBER: 03B1417062

FIGURE
2

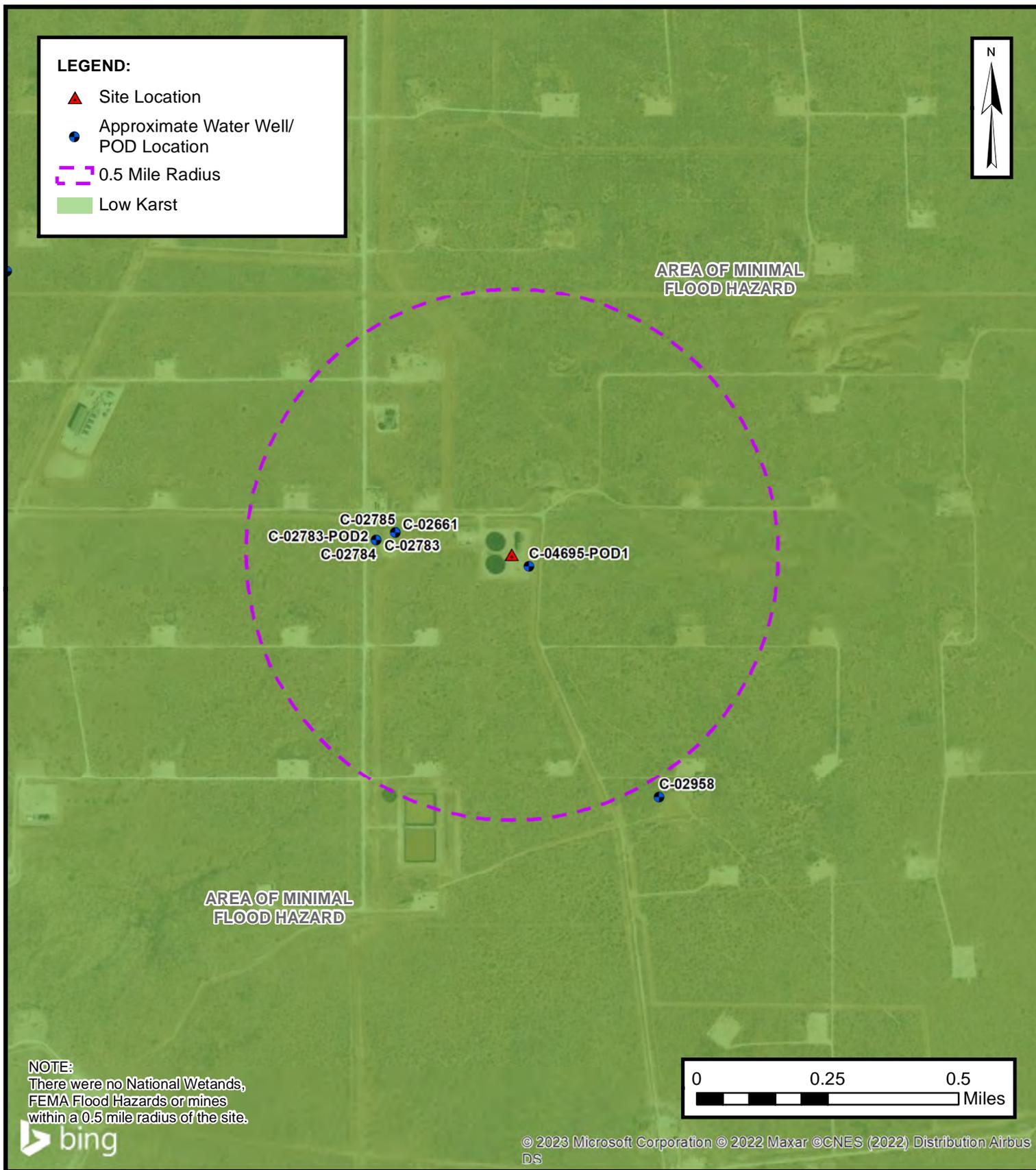


ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

SITE MAP
 OXY USA INC.
 NORTH CORRIDOR WPF
 Eddy County, New Mexico
 32.247° N, 103.787° W

PROJECT NUMBER: 03B1417062

FIGURE
3



CLOSURE CRITERIA MAP

OXY USA INC.
 NORTH CORRIDOR WPF
 Eddy County, New Mexico
 32.247° N, 103.787° W

PROJECT NUMBER: 03B1417062

FIGURE
4



APPENDIX B

Supporting Documentation

Client: Oxy USA Inc.
 Project Name: North Corridor WPF
 Project Location: Eddy County, New Mexico
 Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 1/12/2023
 Date Completed: 1/12/2023
 Drilling Company: West Texas Water Well Services
 Driller: Russell Southerland
 Geologist: Kelly Lowery
 Boring Method: AR
 Sampler Type: AR
 Bore Hole Diameter: 6"
 Casing Diameter: N/A
 Well Materials: N/A
 Surface Completion: N/A

Soil Boring / Well Number: SB-1 (C-04695-POD1)
 Project #: 03B1417062
 Drawn By: Beaux Jennings
 Approved By: Heather Holthaus

BORING METHOD
 HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 GP - GEOPROBE
 AR - AIR ROTARY

SAMPLER TYPE
 CB - FIVE FOOT CORE BARREL
 SS - DRIVEN SPLIT SPOON
 ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
 ▽ AT COMPLETION
 ▽ AT WELL STABILIZATION

Soil Boring Detail	Soil Classification	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	BORING AND SAMPLING NOTES
--------------------	---------------------	---------------	-------------	------------	-----------------	------------	-------------------	------------------------	---------------------------

0' - Sand, some plasticity, fine-grained, red, dry, no odor
20' - Sand, very fine-grained, light reddish brown, dry, no odor
30' - Some sandstone fragments, red, dry, no odor
50' - Larger sandstone fragments, pale red, dry, no odor
60' - Sand, some plasticity, very fine-grained, red, dry, no odor

10								
20								
30								
40								
50								
60								
70								

NR - No Recovery



Beaux Jennings

From: Beaux Jennings
Sent: Monday, October 10, 2022 10:48 AM
To: OCD.Enviro@emnrd.nm.gov
Subject: North Corridor WPF (Incident # nAPP2227954604)

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for a liner inspection that will be conducted at the North Corridor WPF (Incident # nAPP2227954604) on Wednesday, October 12th at 11am. The inspection may be used for closure, provided that the liner remains intact and had the ability to contain the spill.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f 

Beaux Jennings

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, December 21, 2022 5:31 PM
To: Beaux Jennings
Cc: Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] North Corridor WPF (Incident # nAPP2227954604)

[**EXTERNAL EMAIL**]

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, December 21, 2022 3:47 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] North Corridor WPF (Incident # nAPP2227954604)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the North Corridor WPF (Incident # nAPP2227954604) on Tuesday, December 27th at 11am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f   

PLEASE NOTE OUR NEW CORPORATE ADDRESS:
Ensolum, LLC
8330 LBJ Freeway, Ste. 830

Dallas, TX 75243

Active Mines in New Mexico

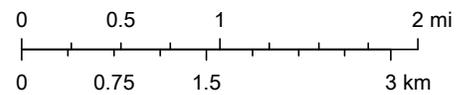


12/23/2022, 9:28:04 AM

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Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.

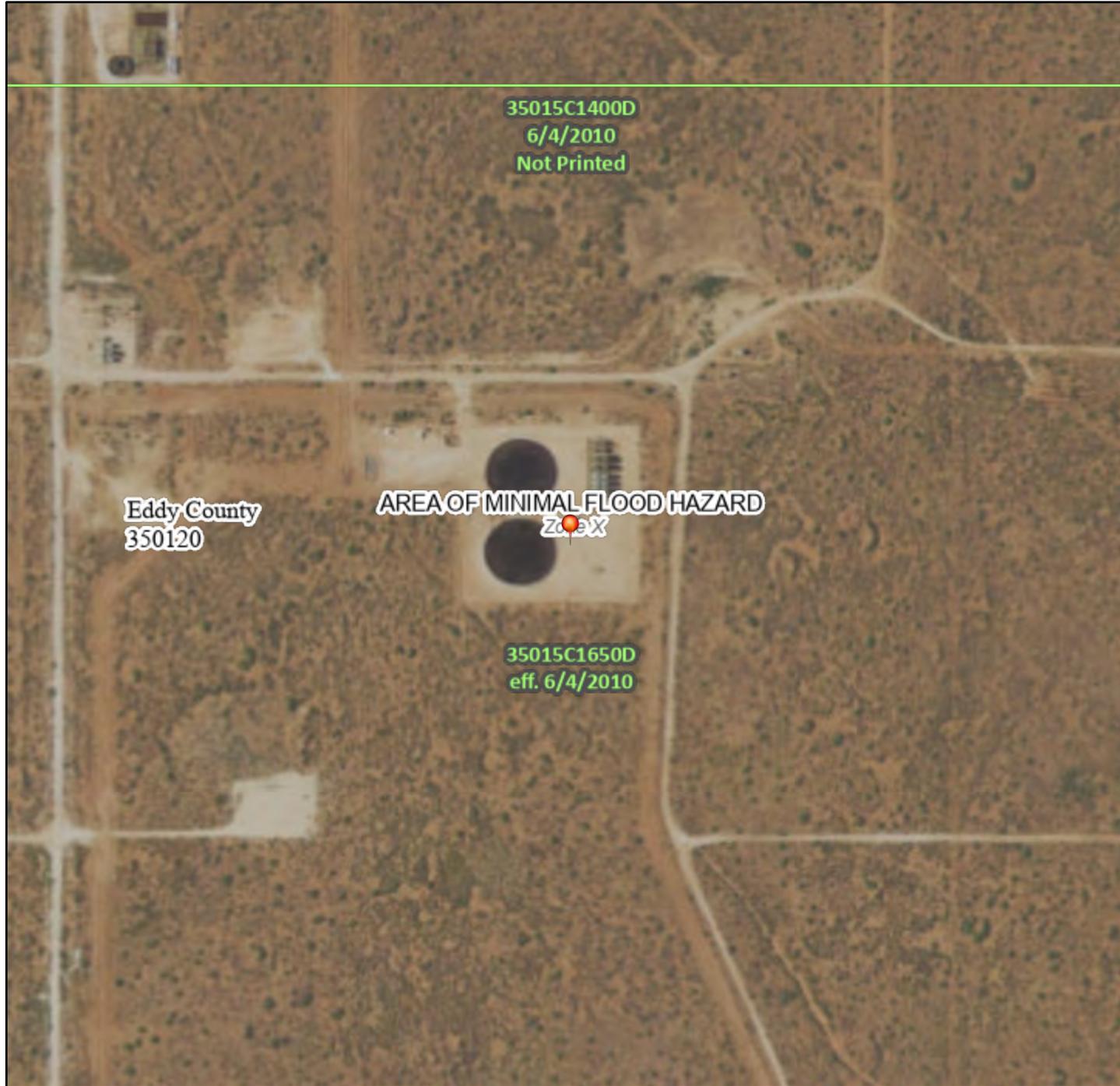


Esri, HERE, Garmin, Earthstar Geographics

National Flood Hazard Layer FIRMette



103°47'30"W 32°15'2"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/23/2022 at 10:30 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

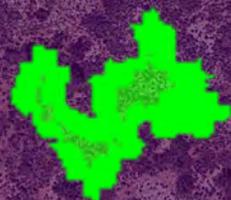
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

North Corridor WPF

Write a description for your map.

Legend

-  Feature 1
-  Feature 2
-  Feature 3
-  High
-  Low
-  Medium
-  North Corridor WPF 10.12.22
-  North Corridor WPF 10.12.22



600 ft

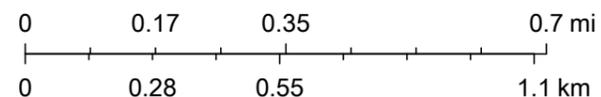
OSE POD Locations Map



1/25/2023, 9:34:26 AM

- Recently Edited PODs
- Active
- Plugged
- OSE District Boundary
- New Mexico State Trust Lands
- Subsurface Estate
- Both Estates
- SiteBoundaries

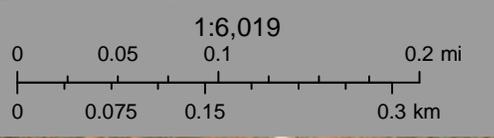
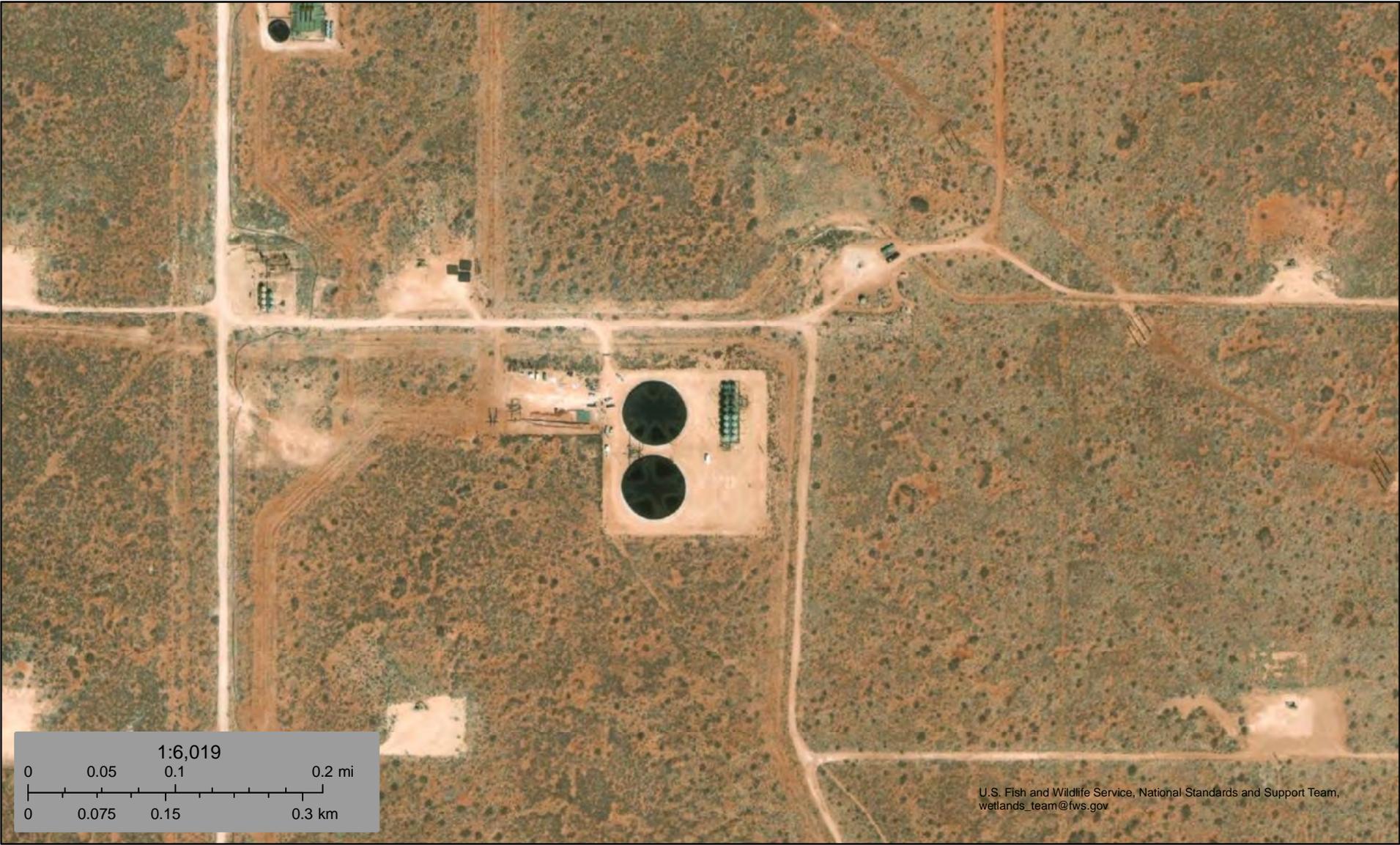
1:18,056



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



Wetlands Mapper



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

December 23, 2022

Wetlands

-  Estuarine and Marine Deepwater
-  Freshwater Emergent Wetland
-  Lake
-  Estuarine and Marine Wetland
-  Freshwater Forested/Shrub Wetland
-  Other
-  Freshwater Pond
-  Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



APPENDIX C

Photographic Documentation



View of release point and impact area during intial investigation activities, facing northwest.



View of impact area during intial investigation activities, facing southeast.



View of impact area during initial investigation activities, facing northwest.



View of impact area during initial investigation activities, facing northeast.



APPENDIX D

Tables





TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 North Corridor WPF
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417062

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)			10	NE	NE	NE	50	1,000	NE	2,500	20,000
Floor Soil Sample Analytical Results											
FS-1	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	128	19.7	148	32.0
FS-2	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-3	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
FS-4	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	311	49.9	361	176
FS-5	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
FS-6	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-7	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	610	161	771	2,640
FS-8	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-9	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-10	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	784
FS-11	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	848
FS-12	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,800
FS-13	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	18.6	13.2	31.8	272
FS-14	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	64.0
FS-15	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	416
FS-16	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-17	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
FS-18	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-19	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	224
FS-20	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,800
FS-21	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,000
FS-22	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	704
FS-23	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	336
FS-24	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,560
FS-25	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	710	188	898	4,720
FS-26	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	432
FS-27	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,200
FS-28	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	477	373	850	48.0
FS-29	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,120
FS-30	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,800
FS-31	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,160
FS-32	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	7,840
FS-33	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,160
FS-34	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,720
FS-35	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-36	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	432
FS-37	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,400
FS-38	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,600



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 North Corridor WPF
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417062

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)			10	NE	NE	NE	50	1,000	NE	2,500	20,000
Pothole Soil Sample Analytical Results											
PH-1	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
PH-2	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,920
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	920
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	480
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	848
PH-3	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,360
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	384
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
PH-4	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
PH-5	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,080
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	112
Background Sample Analytical Results											
BG-1	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
BG-2	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
BG-3	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-4	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
BG-5	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
BG-6	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-7	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-8	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-9	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
BG-10	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
BG-11	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-12	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0

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



APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



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

November 01, 2022

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

RE: NORTH CORRIDOR WPF

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 14:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 1 0-1' (H225048-01)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 1 1-2' (H225048-02)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 1 2-3' (H225048-03)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69		
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND						

Surrogate: 1-Chlorooctane 99.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 1 3-4' (H225048-04)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69		
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND						

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 2 0-1' (H225048-05)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69		
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND						

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 2 1-2' (H225048-06)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	920	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 2 2-3' (H225048-07)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 2 3-4' (H225048-08)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 3 0-1' (H225048-09)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 3 1-2' (H225048-10)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 3 2-3' (H225048-11)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 3 3-4' (H225048-12)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 4 0-1' (H225048-13)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 4 1-2' (H225048-14)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 4 2-3' (H225048-15)

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 4 3-4' (H225048-16)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 5 0-1' (H225048-17)

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	10/28/2022	ND	432	108	400	3.64	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	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 5 1-2' (H225048-18)

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/28/2022	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	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 141 % 45.3-161

Surrogate: 1-Chlorooctadecane 173 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 5 2-3' (H225048-19)

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	10/31/2022	ND	1.97	98.3	2.00	6.10	
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

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	10/28/2022	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	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: PH 5 3-4' (H225048-20)

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 69.9-140

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	10/28/2022	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	11/01/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND						

Surrogate: 1-Chlorooctane 98.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 1 0-.25' (H225048-21)

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 128 % 45.3-161

Surrogate: 1-Chlorooctadecane 152 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 2 0-.25' (H225048-22)

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND						

Surrogate: 1-Chlorooctane 139 % 45.3-161

Surrogate: 1-Chlorooctadecane 170 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 3 0-.25' (H225048-23)

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 69.9-140

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	10/28/2022	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	11/01/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND						

Surrogate: 1-Chlorooctane 99.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 4 0-.25' (H225048-24)

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 69.9-140

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	10/28/2022	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	11/01/2022	ND	189	94.3	200	0.867		
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND						

Surrogate: 1-Chlorooctane 98.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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.
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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolium, LLC
 Project Manager: *Buck Jennings*
 Address: 601 N. Marland St, STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 432-230-3344 Fax #:
 Project #: 0380417062 Project Owner:
 Project Name: *North Corridor WPT*
 Project Location: *Eddy Co Wm*
 Sampler Name: *Steve 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.	DATE	TIME	TPH	BTEX	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
<i>HS048</i>	<i>PH1</i>	<i>0-1</i>	<i>C</i>	<i>1</i>	<i>X</i>							<i>10-26-22</i>	<i>1134</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH1</i>	<i>1-2</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1136</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH1</i>	<i>2-3</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1138</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH1</i>	<i>3-4</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1140</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH2</i>	<i>0-1</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1144</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH2</i>	<i>1-2</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1146</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH2</i>	<i>2-3</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1148</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH2</i>	<i>3-4</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1150</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH3</i>	<i>0-1</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1154</i>	<i>X</i>	<i>X</i>	<i>X</i>
	<i>PH3</i>	<i>1-2</i>	<i>C</i>	<i>1</i>	<i>X</i>								<i>1156</i>	<i>X</i>	<i>X</i>	<i>X</i>

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Relinquished By: *[Signature]* Date: *10-26-22*
 Received By: *[Signature]* Date: *10-26-22*
 Time: *1403*
 Relinquished By: *[Signature]* Received By: *[Signature]*
 Time:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: *B Jennings@ensolium.com*
 REMARKS:
 Turnaround Time:
 Standard Rush
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C
 Yes No

Delivered By: (Circle One) Observed Temp. °C *21.5* Sample Condition Intact Cool Intact Corrected Temp. °C *1.9* Checked By: (Initials) *SD*
 Sampler - UPS - Bus - Other:
 Cardinal cannot accept verbal changes. Please email changes to *celjy.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: *Beau Jennings*
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 432-230-3344 Fax #:
 Project #: 0381417062 Project Owner: *OKY*
 Project Name: *North Corridor WDPF*
 Project Location: *Eddy Co. Riv*
 Sampler Name: *Steve D. Hill*
 P.O. #:
 Company: *OKY 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:					
<i>H25048</i>																
11	PH 3	2-3	C		X											
12	PH 3	3-4	C		X											
13	PH 4	0-1	C		X											
14	PH 4	1-2	C		X											
15	PH 4	2-3	C		X											
16	PH 4	3-4	C		X											
17	PH 5	0-1	C		X											
18	PH 5	1-2	C		X											
19	PH 5	2-3	C		X											
20	PH 5	3-4	C		X											

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Relinquished By: *[Signature]* Date: *10-26-22*
 Received By: *[Signature]* Date: *10-26-22*
 Relinquished By: *[Signature]* Date: *10-26-22*
 Received By: *[Signature]* Date: *10-26-22*

Delivered By: (Circle One) Observed Temp. °C *25* Sample Condition Intact Cool Intact Yes No No
 Corrected Temp. °C *19* CHECKED BY: (Initials) *JD*
 Sampler - UPS - Bus - Other: Thermometer ID #113 Standard Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C Cool Intact Yes No No

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



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

January 03, 2023

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

RE: NORTH CORRIDOR WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/28/22 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 1 0-.25' (H226090-01)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	128	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	19.7	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

Cardinal Laboratories

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 2 0-.25' (H226090-02)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 3 0-.25' (H226090-03)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 4 0-.25' (H226090-04)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	311	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	49.9	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 5 0-.25' (H226090-05)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 6 0-.25' (H226090-06)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 7 0-.25' (H226090-07)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	610	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	161	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 8 0-.25' (H226090-08)

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 86.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 9 0-.25' (H226090-09)

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 10 0-.25' (H226090-10)

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 11 0-.25' (H226090-11)

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 12 0-.25' (H226090-12)

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 13 0-.25' (H226090-13)

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	18.6	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	13.2	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.7 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 14 0-.25' (H226090-14)

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 74.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 15 0-.25' (H226090-15)

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	12/29/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/29/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 62.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 66.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 16 0-.25' (H226090-16)

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	12/29/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/29/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 60.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 65.7 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 17 0-.25' (H226090-17)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.0 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 18 0-.25' (H226090-18)

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 71.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.4 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 19 0-.25' (H226090-19)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 20 0-.25' (H226090-20)

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 98.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 21 0-.25' (H226090-21)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 22 0-.25' (H226090-22)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 23 0-.25' (H226090-23)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Analytical Results For:

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 24 0-.25' (H226090-24)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 25 0-.25' (H226090-25)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	710	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	188	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 26 0-.25' (H226090-26)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

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	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2023	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/03/2023	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.9 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 27 0-.25' (H226090-27)

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 28 0-.25' (H226090-28)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

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	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	477	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	373	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 29 0-.25' (H226090-29)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2023	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/03/2023	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 30 0-.25' (H226090-30)

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 31 0-.25' (H226090-31)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 32 0-.25' (H226090-32)

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7840	16.0	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 33 0-.25' (H226090-33)

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	12/29/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.7 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 34 0-.25' (H226090-34)

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 73.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 35 0-.25' (H226090-35)

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	12/29/2022	ND	2.11	105	2.00	1.59		
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79		
Total BTEX	<0.300	0.300	12/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 36 0-.25' (H226090-36)

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	12/29/2022	ND	2.11	105	2.00	1.59		
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79		
Total BTEX	<0.300	0.300	12/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 77.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 37 0-.25' (H226090-37)

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	12/29/2022	ND	2.11	105	2.00	1.59		
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79		
Total BTEX	<0.300	0.300	12/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 80.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 38 0-.25' (H226090-38)

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	12/29/2022	ND	2.11	105	2.00	1.59		
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79		
Total BTEX	<0.300	0.300	12/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13600	16.0	12/29/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95		
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99		
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND						

Surrogate: 1-Chlorooctane 76.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 1 of 4

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO								
Project Manager: Beaux Jennings		Company: Oxy USA Inc.										
Address: 601 N Marientfield Street, Suite 400		Attn: Wade Ditrich										
City: Midland	State: TX	Zip: 79701	Address:									
Phone #: 210-219-8858	Fax #:	City:										
Project #: 03R1412062	Project Owner:	State:	Zip:	Phone #: 575-390-2828								
Project Name: North Corridor WDF	Project Location: Eddy County	Fax #:	SAMPLING									
Sampler Name: Skrape Piller	FOR LAB USE ONLY											
Lab I.D. #220090	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	DATE	TIME	TPH 8015 M	BTEX 8021 B	Chlorides 4500	WFE	2/24/22	Sam
FS-1	0-25	C	X	1	12/24/22	11:50	X	X	X			
FS-2	0-25	C	X	1	12/24/22	11:51	X	X	X			
FS-3	0-25	C	X	1	12/24/22	11:52	X	X	X			
FS-4	0-25	C	X	1	12/24/22	11:53	X	X	X			
FS-5	0-25	C	X	1	12/24/22	11:54	X	X	X			
FS-6	0-25	C	X	1	12/24/22	11:54	X	X	X			
FS-7	0-25	C	X	1	12/24/22	11:55	X	X	X			
FS-8	0-25	C	X	1	12/24/22	11:56	X	X	X			
FS-9	0-25	C	X	1	12/24/22	11:56	X	X	X			
FS-10	0-25	C	X	1	12/24/22	11:57	X	X	X			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 2 of 4

Company Name: EnsoLum, LLC		BILL TO		P.O. #:		ANALYSIS REQUEST													
Project Manager: Beaux Jennings		Company: Oxy USA Inc.		Address:															
Address: 601 N Marientfeld Street, Suite 400		Attn: Wade Dittrich		City:															
City: Midland		Address:		State:															
Phone #: 210-219-8858		City:		State:															
Project #: 03R1417062		Project Owner:		Zip:															
Project Name: North Corridor WPF		Project Location: Eddy County		Phone #: 575-390-2828															
Project Location: North Corridor WPF		Project Name: Eddy County		Fax #:															
Sampler Name: Sherry Diller		FOR LAB USE ONLY		PRESERVY		SAMPLING													
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides	4500
H2310090	F5-11	0-.25		1	X									12/8/12	11:58	X	X	X	
	F5-17	0-.25		1	X									12/8/12	11:58	X	X	X	
	F5-13	0-.25		1	X									12/8/12	11:59	X	X	X	
	F5-14	0-.25		1	X									12/8/12	12:00	X	X	X	
	F5-15	0-.25		1	X									12/8/12	12:00	X	X	X	
	F5-16	0-.25		1	X									12/8/12	12:01	X	X	X	
	F5-17	0-.25		1	X									12/8/12	12:02	X	X	X	
	F5-18	0-.25		1	X									12/8/12	12:03	X	X	X	
	F5-19	0-.25		1	X									12/8/12	12:04	X	X	X	
	F5-20	0-.25		1	X									12/8/12	12:05	X	X	X	

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Relinquished By: *[Signature]* Date: 12/28/12 Time: 12:41 Received By: *[Signature]* Verbal Result: Yes No Add'l Phone #:
All Results are emailed. Please provide Email address:

Relinquished By: *[Signature]* Date: 12/28/12 Time: 12:41 Received By: *[Signature]* REMARKS:

Delivered By: (Circle One) UPS Bus Other: Observed Temp. °C: 5.5 Corrected Temp. °C: 4.9 Sample Condition: Cool Intact Yes No Checked BY: *[Signature]* Turnaround Time: Standard Rush Bacteria (only) Cool Intact Yes No Sample Condition: Observed Temp. °C: Corrected Temp. °C:

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 4 of 4

Company Name: Ensolium, LLC **BILL TO** ANALYSIS REQUEST

Project Manager: Beaux Jennings P.O. #:

Address: 601 N Marlenfeld Street, Suite 400 Company: Oxy USA Inc.

City: Midland State: TX Zip: 79701 Attn: Wade Dittrich

Phone #: 210-219-8858 Fax #: Address:

Project #: 03B417062 Project Owner: City: State: Zip:

Project Name: North Corridor WOF Phone #: 575-390-2828

Project Location: Eddy County WOF Fax #:

Sampler Name: Shana Alley PRESERV/ SAMPLING

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chlorides	WFE	SOM
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
4201009D	FS-31	0-25	C	1	X							12/29/12	1220	X	X	X		
	FS-32	0-25	C	1	X							12/28/12	1222	X	X	X		
	FS-33	0-25	C	1	X							12/28/12	1224	X	X	X		
	FS-34	0-25	C	1	X							12/28/12	1226	X	X	X		
	FS-35	0-25	C	1	X							12/28/12	1228	X	X	X		
	FS-36	0-25	C	1	X							12/28/12	1231	X	X	X		
	FS-37	0-25	C	1	X							12/28/12	1232	X	X	X		
	FS-38	0-25	C	1	X							12/28/12	1233	X	X	X		

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Relinquished By: [Signature] Date: 12/28/12 Received By: [Signature] Verbal Result: Yes No Add'l Phone #:

Relinquished By: [Signature] Date: 12/28/12 Received By: [Signature] All Results are emailed. Please provide Email address:

Relinquished By: [Signature] Date: 12/28/12 Received By: [Signature] REMARKS:

Delivered By: (Circle One) Observed Temp: 5.5°C Sample Condition: Cool Intact Yes No

Sampler - UPS - Bus - Other: Corrected Temp: 4.9°C Checked By: [Signature]

Turnaround Time: Standard Rush Bacteria (only) Sample Condition: Cool Intact Yes No

Thermometer ID #13 -0.0°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

August 14, 2023

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

RE: NORTH CORRIDOR WPF

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 12:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 5 (H234233-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	48.0	16.0	08/09/2023	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	08/10/2023	ND	173	86.4	200	0.787	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	177	88.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 6 (H234233-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	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	08/10/2023	ND	173	86.4	200	0.787	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	177	88.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 7 (H234233-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	08/09/2023	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	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 8 (H234233-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	32.0	16.0	08/09/2023	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	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 9 (H234233-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	16.0	16.0	08/09/2023	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	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 10 (H234233-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	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	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 11 (H234233-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	32.0	16.0	08/09/2023	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	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: BG - 12 (H234233-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	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	08/09/2023	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	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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.
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: ENSOLUN, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: BEAUC JENNINGS		Company:					
Address: 601 N Mainfield St Suite 400		Attn:					
City: Midland State: TX Zip: 79701		Address:					
Phone #: 210-219-8858 Fax #:		City:					
Project #: 0381417062 Project Owner:		State:					
Project Name: North Corridor WPF		Phone #:					
Project Location: Eddy County, NM		Fax #:					
Sampler Name: Samantha Prokowitz		DATE					
FOR LAB USE ONLY		TIME					

Lab I.D.	Sample I.D.	PRESERV.		DATE	TIME	BTEX	TPH	Chlorides	4500
		(G)RAB OR (C)OMP.	# CONTAINERS						
HP234237	B6-5	X	X	8/18/23	1030	X	X	X	X
	B6-6	X	X	8/18/23	1032	X	X	X	X
	B6-7	X	X	8/18/23	1034	X	X	X	X
	B6-8	X	X	8/18/23	1036	X	X	X	X
	B6-9	X	X	8/18/23	1038	X	X	X	X
	B6-10	X	X	8/18/23	1040	X	X	X	X
	B6-11	X	X	8/18/23	1042	X	X	X	X
	B6-12	X	X	8/18/23	1044	X	X	X	X
	NFE								

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Relinquished By: [Signature]	Date: 8/18/23	Received By: [Signature]	Date: 8/18/23
Time: 12:27	Time: 12:27	Time:	Time:
Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition
Sampler - UPS - Bus - Other:	26		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Form 9000 Rev. 4-07-11-12			Checked BY: [Signature]

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



APPENDIX F

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2227954604
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Wade Dittrich	Contact Telephone: 575-390-2828
Contact email: wade_dittrich@oxy.com	Incident # nAPP2227954604
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.246737 Longitude -103.786239
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Corridor WPF	Site Type: Water Transfer Pump
Date Release Discovered: 10/04/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	4	24S	31E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls):165	Volume Recovered (bbls): 160
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: 1-inch nipple internal corrosion.

Incident ID	nAPP2227954604
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Wade Dittrich of Oxy via email to OCD.enviro@emnrd.nm.gov and BLM_NM_CFO_Spill@blm.gov on 10/05/2022 at 0842.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: <u>Wade Dittrich</u> Title: <u>Environmental Specialist</u> Signature: <u></u> Date: <u>2-23-23</u> email: <u>wade_dittrich@oxy.com</u> Telephone: <u>575-390-2828</u>
OCD Only Received by: _____ Date: _____

Incident ID	nAPP2227954604
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2227954604
District RP	
Facility ID	
Application ID	

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.

Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 2-23-23

email: wade_dittrich@oxy.com

Telephone: 575-390-2828

OCD Only

Received by: _____

Date: _____

Incident ID	nAPP2227954604
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

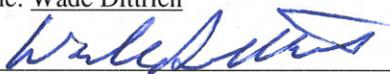
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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.

Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 2-23-23

email: wade_dittrich@oxy.com

Telephone: 575-390-2828

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____

Date: _____

Printed Name: _____

Title: _____

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 251926

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 251926
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2227954604 NORTH CORRIDOR WPF, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/22/2024