



## CLOSURE REPORT

Property:

**2RP-9 - 10.4.07 (Big Walt 2 State #008)**

**Eddy County, New Mexico  
32.422360° N, 104.461126° W  
NMOCD Incident ID: nAPP2235540469  
District RP: 2RP-9**

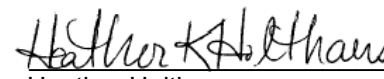
January 11, 2023  
Ensolum Project No. 03B1417067

Prepared for:

**Oxy USA Inc.  
P.O. Box 4294  
Houston, TX 77210  
Attn: Mr. Wade Dittrich**

Prepared by:

  
Beaux Jennings  
Senior Project Manager

  
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Senior Project Manager



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# ENSOLUM

## CLOSURE REPORT

2RP-9 - 10.4.07 (Big Walt 2 State #008)

Eddy County, New Mexico  
32.422360° N, 104.461126° W  
NMOCD Incident ID: nAPP2235540469  
District RP: 2RP-9

Ensolum Project No. 03B1417067

### 1.0 INTRODUCTION

#### 1.1 Executive Summary

- Due to the lack of information regarding the release, it is unknown if the impacted soil was remediated at the 2RP-9 - 10.4.07 (Big Walt 2 State #008), hereinafter referred to as the "Site".
- On October 4, 2007, approximately 12 barrels (bbls) of crude oil and 750 bbls of produced water were released to the ground surface with most of the fluids remaining on the Big Walt central tank battery (CTB) pad. Five hundred bbls of produced water were subsequently recovered. Based on the lack of remediation information, Oxy USA Inc. (Oxy) contracted Ensolum, LLC (Ensolum) to perform sampling of the approximate spill location at the Site. The impacted on-Site soils in the release area were excavated by Tex-Mex Rentals & Service (Tex-Mex) in 2022. Following remediation activities, excavated material was transported to Lea Land LLC for proper disposal.
- On September 2, 2022, Ensolum arrived on-Site and collected 165 composite soil samples from the excavation floor within the release area. The floor soil samples were collected from 165 different sample locations (FS-1 through FS-165) at depths ranging from 0.25 to 0.50 inches below ground surface (bgs).
- Based on laboratory analytical results, additional excavation at the Site was required. Ensolum arrived on-Site with Tex-Mex on September 29, 2022 to conduct additional excavation activities and collected 14 additional composite soil samples from the excavation floor (FS-4, FS-5, FS-6, FS-7, FS-9, FS-10, FS-33, FS-34, FS-75, FS-82, FS-86, FS-98, FS-102, and FS-131) at depths ranging from 1 to 7 feet bgs.
- Based on laboratory analytical results, additional excavation at the Site was required. Ensolum arrived on-Site with Tex-Mex on October 12, 2022 to conduct additional excavation activities and collected 1 additional composite soil sample from the excavation floor (FS-131) at a depth of 9 feet bgs. Additionally, Ensolum collected 4 composite soil samples from the excavation sidewalls (SW-86, SW-98, SW-102, and SW-131) at depths ranging from 0-4 to 0-9 feet bgs.
- 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 EMNRD OCD's New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 600 feet by 195 feet. The excavation depths ranged from 0.25 inches bgs to a maximum depth of 9 feet bgs.

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- A total of 180 composite soil samples from 165 locations from the excavation floor (FS-1 through FS-165) and 4 composite soil samples from the excavation sidewalls (SW-86, SW-98, SW-102, and SW-131) were collected.
- Based on the laboratory analytical results, the final confirmation composite soil samples collected from the excavation floor and sidewalls did not exhibit benzene, toluene, ethylbenzene, and xylene (BTEX), total BTEX, total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO) and/or motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavation area was subsequently backfilled with clean fill material and then contoured to the original surrounding grade.

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

## 1.2 Site Description & Background

<b>Operator:</b>	Oxy USA Inc. (Oxy)
<b>Site Name:</b>	2RP-9 - 10.4.07 (Big Walt 2 State #008)
<b>Location:</b>	32. 422360° N, 104. 461126° W Eddy County, New Mexico
<b>Property:</b>	State Land Office (SLO)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On October 4, 2007, approximately 12 bbls of crude oil and 750 bbls of produced water were released to the ground surface with most of the fluids remaining on the Big Walt CTB pad. Five hundred bbls of produced water were subsequently recovered. Based on the lack of remediation information, Oxy contracted Ensolum to perform sampling of the approximate spill location at the Site. The impacted on-Site soils in the release area were excavated by Tex-Mex in 2022. Following remediation activities, excavated material was transported to Lea Land LLC for proper disposal.

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.



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- 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.
- 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 classified 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 BLM, the Site is located within an unstable area, also referred to as high karst.
- 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
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

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January 11, 2023



### 3.0 SOIL REMEDIATION ACTIVITIES

On October 4, 2007, approximately 12 bbls of crude oil and 750 bbls of produced water were released to the ground surface with most of the fluids remaining on the Big Walt CTB pad. Five hundred bbls of produced water were subsequently recovered. Based on the lack of remediation information, Oxy contracted Ensolum to perform sampling of the approximate spill location at the Site.

On September 2, 2022, Ensolum arrived on-Site and collected 165 composite soil samples from the excavation floor within the release area. The floor soil samples were collected from 165 different sample locations (FS-1 through FS-165) at depths ranging from 0.25 to 0.50 inches bgs.

Based on laboratory analytical results, additional excavation at the Site was required. Ensolum arrived on-Site with Tex-Mex on September 29, 2022 to conduct additional excavation activities and collected 14 additional composite soil samples from the excavation floor (FS-4, FS-5, FS-6, FS-7, FS-9, FS-10, FS-33, FS-34, FS-75, FS-82, FS-86, FS-98, FS-102, and FS-131) at depths ranging from 1 to 7 feet bgs.

Based on laboratory analytical results, additional excavation at the Site was required. Ensolum arrived on-Site with Tex-Mex on October 12, 2022 to conduct additional excavation activities and collected 1 additional composite soil sample from the excavation floor (FS-131) at a depth of 9 feet bgs. Additionally, Ensolum collected 4 composite soil samples from the excavation sidewalls (SW-86, SW-98, SW-102, and SW-131) at depths ranging from 0-4 to 0-9 feet bgs.

The confirmation soil samples were analyzed for BTEX, TPH GRO/DRO/MRO and chloride in accordance with NMOCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation areas measured approximately 600 feet by 195 feet. The excavation depths ranged from 0.25 inches bgs to a maximum depth of 9 feet bgs.

The lithology encountered during the completion of sampling activities consisted primarily of caliche and limestone.

**Figure 3** identifies approximate composite 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 soil sampling program included the collection of a total of 180 composite soil samples from 165 locations from the excavation floor (FS-1 through FS-165) and 4 composite soil samples from the excavation sidewalls (SW-86, SW-98, SW-102, and SW-131) were collected.

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 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-Cl 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**.

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## 6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH GRO/DRO/MRO, and chloride concentrations associated with the excavation floor (FS-1 through FS-165), and the excavation sidewalls (SW-86, SW-98, SW-102, and SW-131) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate the benzene concentrations for the composite 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 the total BTEX concentrations for the composite soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate the combined TPH GRO/DRO/MRO concentrations for the composite excavation floor samples (FS-4, FS-5, FS-6, FS-7, FS-9, FS-10, FS-33, FS-34, FS-75, FS-82, FS-86, FS-98, FS-102, and FS-131), ranged from 117 mg/kg to 2,363 mg/kg, which are above the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet. The soils in these locations were subsequently removed and taken off-Site for proper disposal.
- Laboratory analytical results indicate the combined TPH GRO/DRO/MRO concentrations for the final composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet.
- Laboratory analytical results indicate the chloride concentrations for the composite soil samples exhibited chloride concentrations ranging from below the laboratory SDLs to 48.0 mg/kg, which are below the applicable NMOCD Closure Criteria of 600 mg/kg from ≤50 feet.

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

## 7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was then backfilled with clean fill material and contoured to the original surrounding grade.

## 8.0 FINDINGS AND RECOMMENDATION

- On October 4, 2007, approximately 12 bbls of crude oil and 750 bbls of produced water were released to the ground surface with most of the fluids remaining on the Big Walt CTB pad. Five hundred bbls of produced water were subsequently recovered. Based on the lack of remediation information, Oxy contracted Ensolum to perform sampling of the approximate spill location at the Site. The impacted on-Site soils in the release area were excavated by Tex-Mex in 2022. Following remediation activities, excavated material was transported to Lea Land LLC for proper disposal.
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- 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 for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation areas measured approximately 600 feet by 195 feet. The excavation depths ranged from 0.25 inches bgs to a maximum depth of 9 feet bgs.
- A total of 180 composite soil samples from 165 locations from the excavation floor (FS-1 through FS-165) and 4 composite soil samples from the excavation sidewalls (SW-86, SW-98, SW-102, and SW-131) were collected.
- Based on the laboratory analytical results, the final confirmation composite soil samples collected from the excavation floor and sidewalls did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavation area was subsequently backfilled with clean fill material and then contoured to the original surrounding grade.

**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.

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### 9.3 Reliance

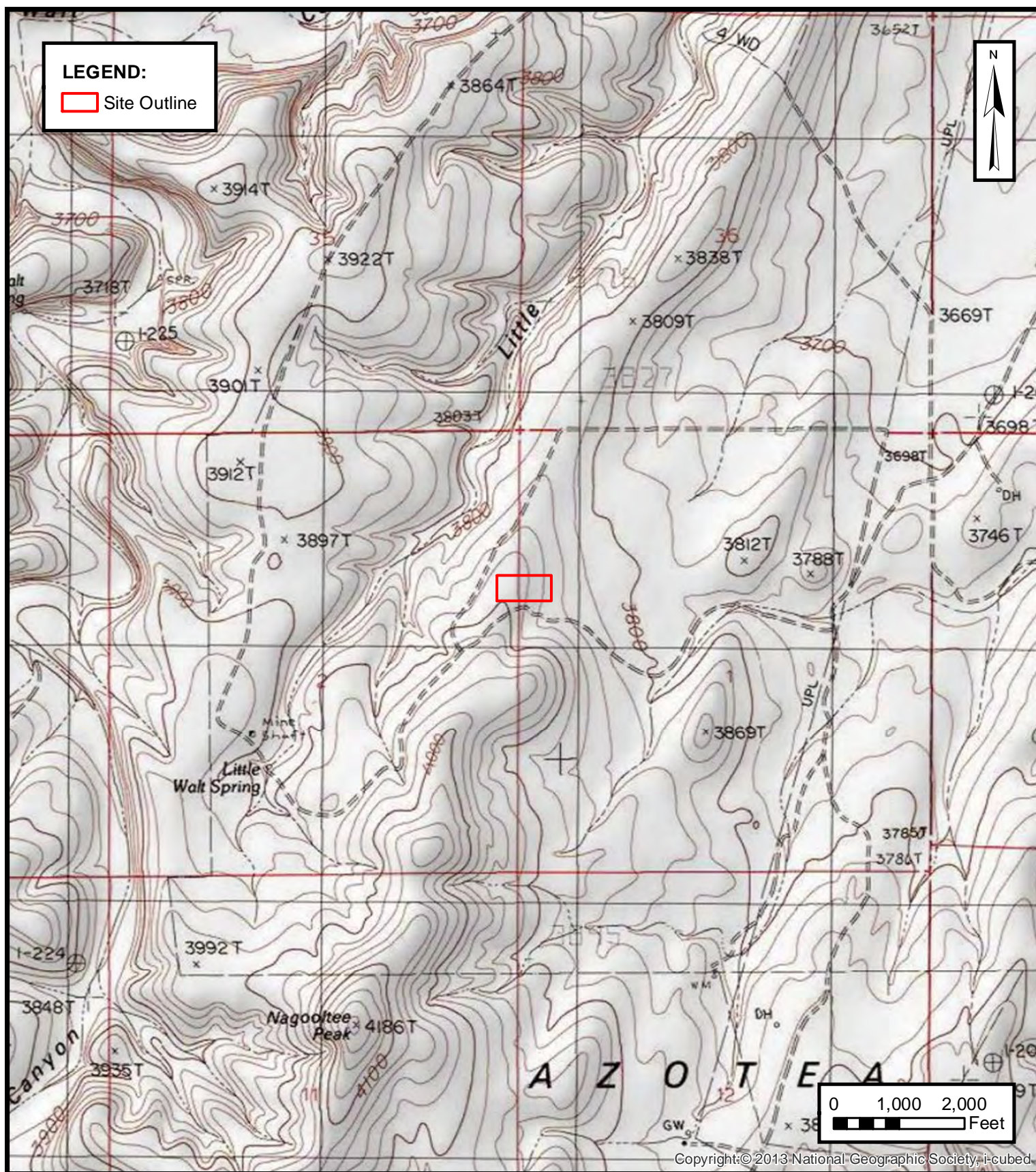
This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc. and Ensolum. Any unauthorized distribution 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

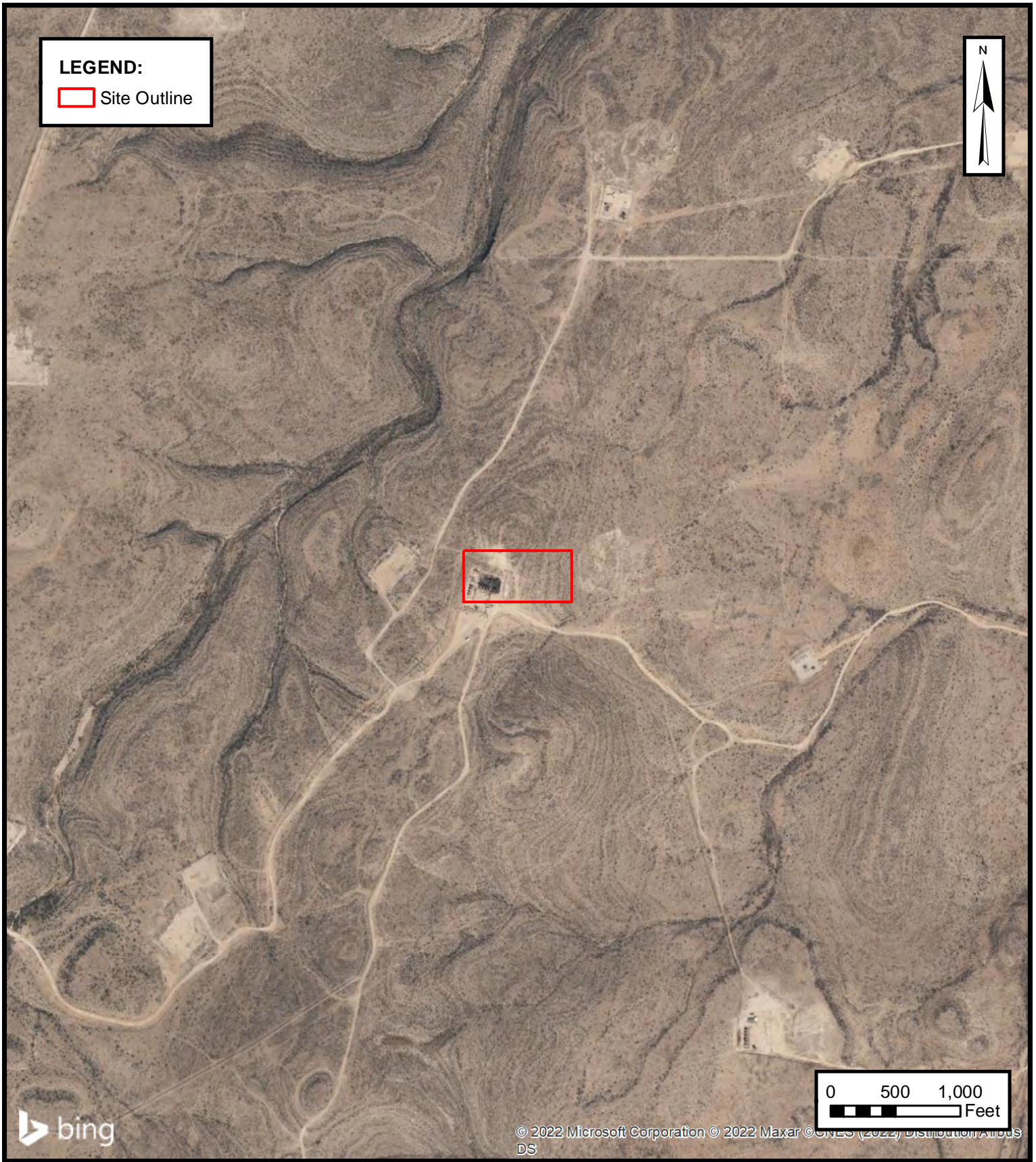
OXY USA INC.  
2RP-9 - 10.4.07 (Big Walt 2 State #008)  
Eddy County, New Mexico  
32.422360° N, 104.461126° W

PROJECT NUMBER: 03B1417067

**FIGURE**

1





**SITE VICINITY MAP**

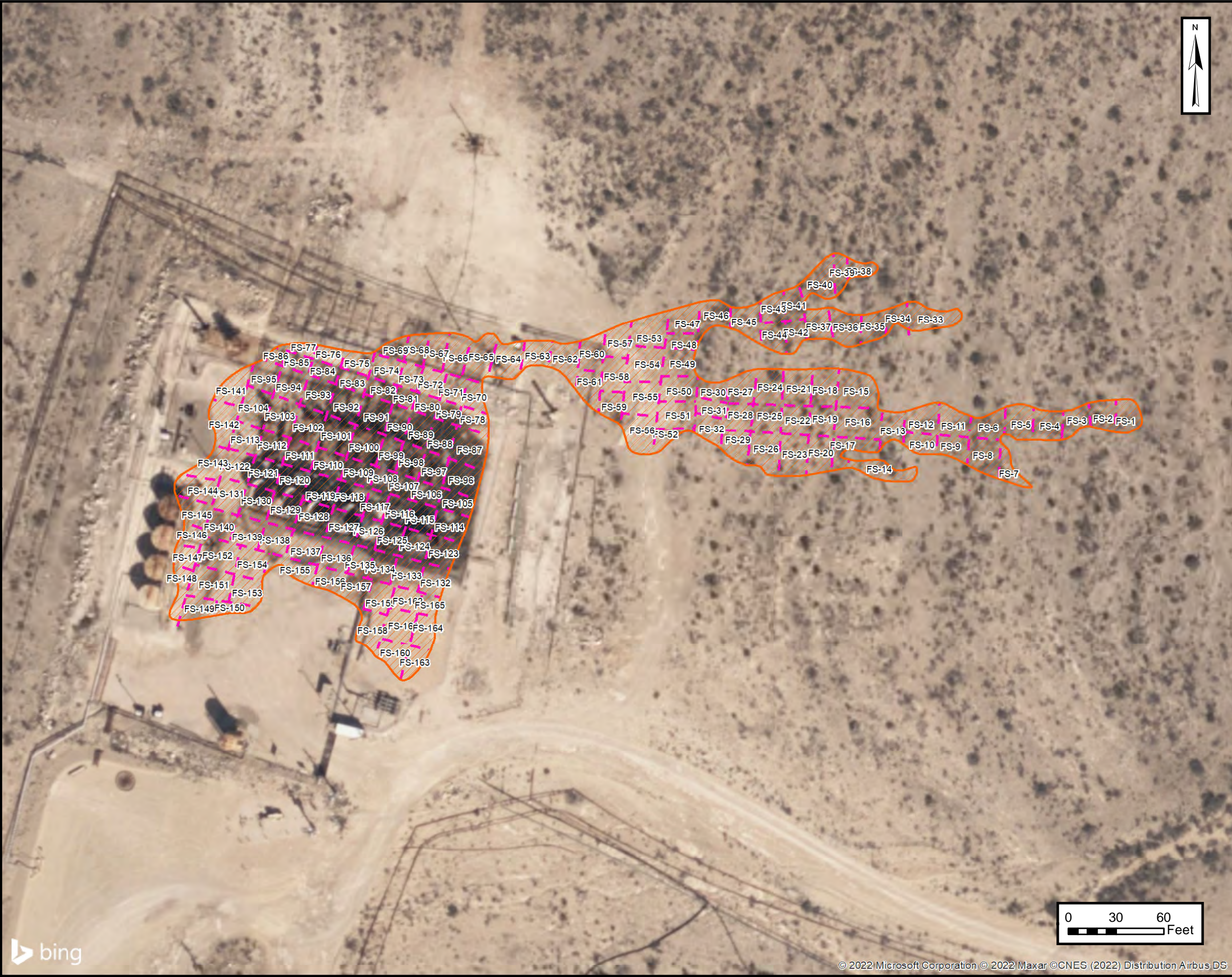
OXY USA INC.  
2RP-9 - 10.4.07 (Big Walt 2 State #008)  
Eddy County, New Mexico  
32.422360° N, 104.461126° W

PROJECT NUMBER: 03B1417067

**FIGURE**

**2**





- LEGEND:**
- Release Extent
  - Soil Sampling Grid Boundary



**SITE MAP**

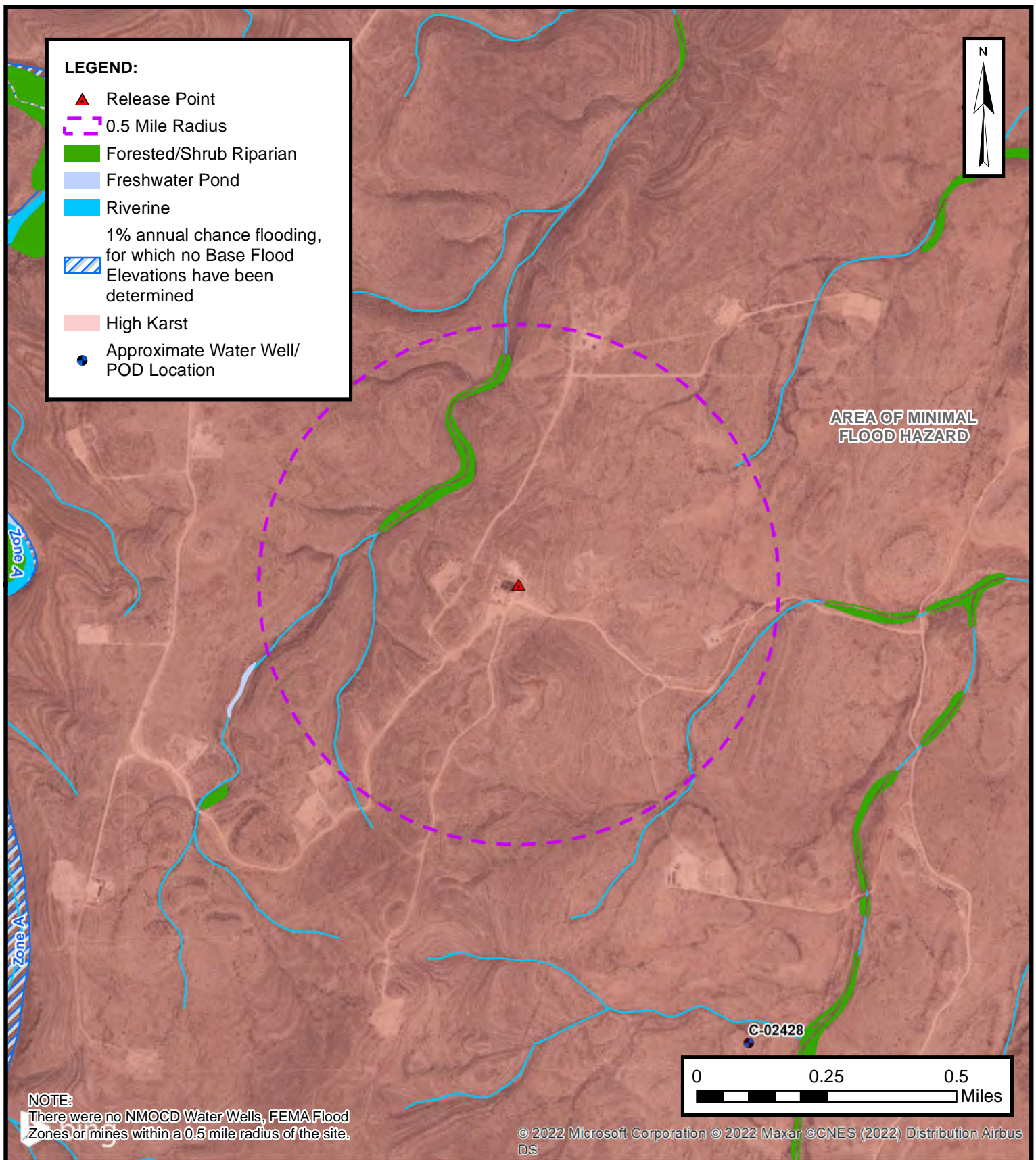
OXY USA INC.  
2RP-9 - 10.4.07 (Big Walt 2 State #008)

Eddy County, New Mexico  
32.422360° N, 104.461126° W

**FIGURE  
3**

PROJECT NUMBER: 03B1417067





### CLOSURE CRITERIA MAP

OXY USA INC.  
2RP-9 - 10.4.07 (Big Walt 2 State #008)  
Eddy County, New Mexico  
32.422360° N, 104.461126° W

PROJECT NUMBER: 03B1417067

FIGURE

4



## APPENDIX B

### Supporting Documentation



# National Flood Hazard Layer FIRMMette



104°27'58"W 32°25'36"N



### Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		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 **11/10/2022 at 5:32 PM** 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.



# Big Walt CTB

Write a description for your map.

## Legend

- Feature 1
- Feature 2
- Feature 3
- Feature 4
- High
- Low
- Medium

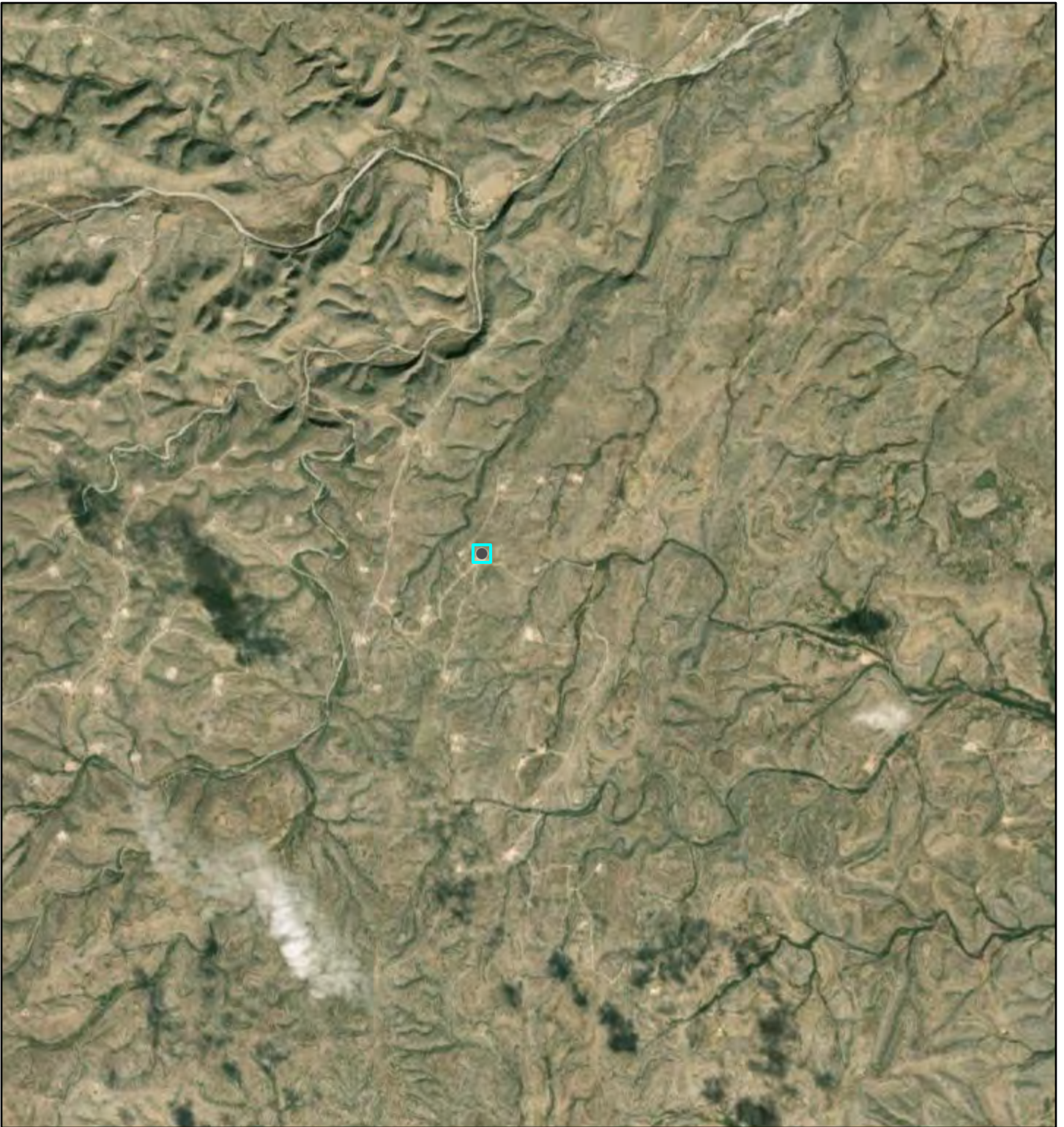
Big Walt CTB 32.42281, -104.46063



300 ft



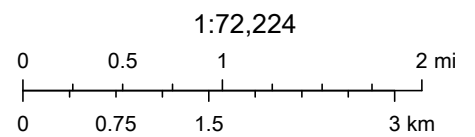
## Active Mines in New Mexico



11/10/2022, 4:29:05 PM

Registered Mines

✕ Aggregate, Stone etc.



Esri, HERE, Garmin, Earthstar Geographics



# OSE POD Locations Map



11/10/2022, 4:27:10 PM

- OSE District Boundary
- New Mexico State Trust Lands
- Both Estates
- SiteBoundaries

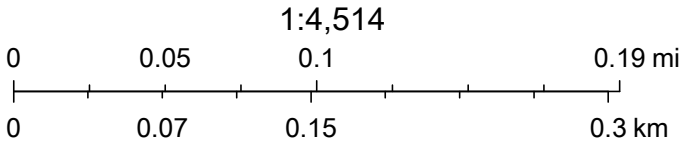
Sample Locations

- Well
- Abandoned Well
- Oil, Gas Well
- Abandoned Oil, Gas Well

- Surface
- Surface/Sediment
- Sediment
- Precipitation Gauge
- Abandoned Precipitation Gauge

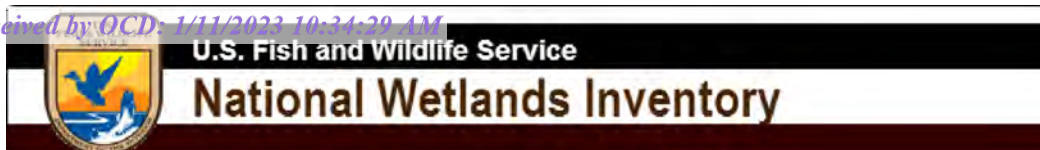
- Air Particulate
- Abandoned Air Particulate
- Treatment System
- Abandoned Treatment System
- PLSSSecondDivision

- PLSSFirstDivision
- PLSSTownship
- BLM Land Grant
- Sections

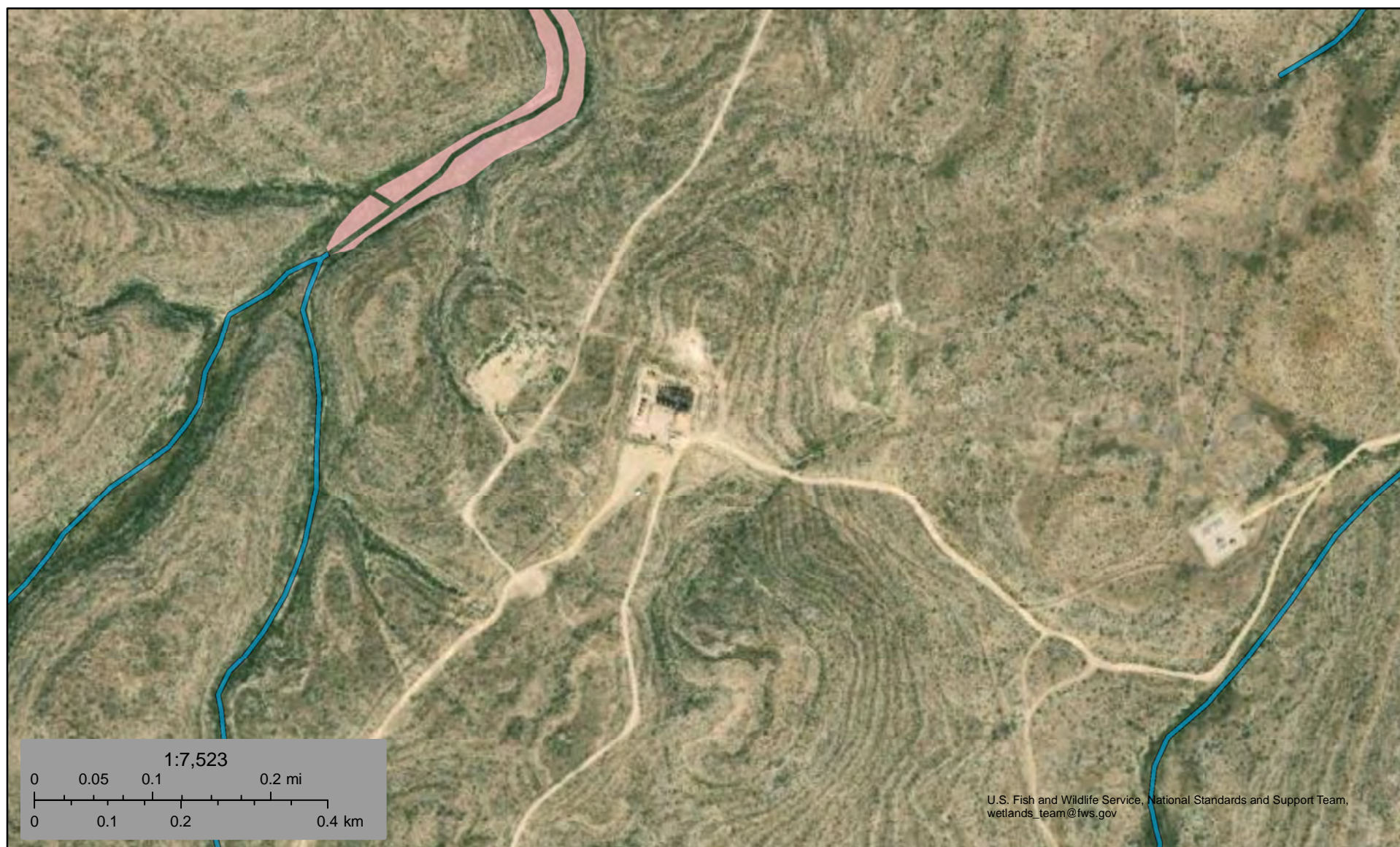


Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., OSE SLO, U.S. Department of Energy Office of Legacy Management, Maxar, BLM





## Wetlands Mapper



November 10, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- 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.



## Beaux Jennings

---

**From:** Beaux Jennings  
**Sent:** Tuesday, August 30, 2022 4:21 PM  
**To:** OCD.Enviro@state.nm.us  
**Subject:** Big Walt CTB Gunbarrel Tank (2RP-5475)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Big Walt CTB Gunbarrel Tank (2RP-5475) on Friday, September 2<sup>nd</sup> at 10am. 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 

## Beaux Jennings

---

**From:** Beaux Jennings  
**Sent:** Tuesday, September 27, 2022 11:46 AM  
**To:** OCD.Enviro@state.nm.us  
**Subject:** Big Walt CTB Gunbarrel Tank (2RP-5475)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Big Walt CTB Gunbarrel Tank (2RP-5475) on Thursday, September 29<sup>th</sup> 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 

## Beaux Jennings

---

**From:** Beaux Jennings  
**Sent:** Monday, October 10, 2022 10:39 AM  
**To:** OCD.Enviro@emnrd.nm.gov  
**Subject:** Big Walt CTB Gunbarrel Tank (2RP-5475)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Big Walt CTB Gunbarrel Tank (2RP-5475) on Thursday, October 13<sup>th</sup> at 10am. 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 

**Beaux Jennings**

---

**From:** Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>  
**Sent:** Wednesday, October 19, 2022 12:19 PM  
**To:** Beaux Jennings  
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** FW: [EXTERNAL] Big Walt CTB Gunbarrel Tank (2RP-5475)

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

Beaux

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.

Thanks,  
Jocelyn Harimon

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



---

**From:** Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>  
**Sent:** Wednesday, October 19, 2022 7:55 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] Big Walt CTB Gunbarrel Tank (2RP-5475)

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

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Big Walt CTB Gunbarrel Tank (2RP-5475) on Friday, October 21<sup>st</sup> at 10am. 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 

**OXY USA WTP LP  
BIG WALT  
CENTRAL TANK BATTERY (CTB)  
Work Plan  
Section 2, Township 22S, Range 24E  
Eddy County, New Mexico  
30-015-27509**

**October 24, 2007**

*Prepared for:*

US Dept. of the Interior  
Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220

State of New Mexico  
Oil Conservation Division  
1301 W. Grand Avenue  
Artesia, NM 88210

*By:*

OXY USA WTP LP  
102 S. Main St.  
Carlsbad, NM 88220  
575-887-8337

## Guye, Gerry, EMNRD

**From:** Guye, Gerry, EMNRD  
**Sent:** Monday, October 29, 2007 12:24 PM  
**To:** 'Rick\_Kerby@oxy.com'  
**Cc:** Bratcher, Mike, EMNRD; 'James\_Amos@nm.blm.gov'  
**Subject:** Work Plan for Oxy Big Walt CTB

Rick

I have gone over your proposed work plan for this battery and have approved it with the following stipulations:

The diagram you sent did not indicate the depth of the samples so I am assuming the samples were taken only at surface level. Hence the high TPH levels.

Use of micro-blasé is authorized outside of the fenced area only. All contaminated soils will be removed from inside the fenced area, as indicated in your work plan, and a new series of samples taken in that area, sent to OCD for approval before any back fill. A diagram must be submitted with the samples showing where the sample was taken and at what depth.

The area outside the fenced area will be monitored for 60 days after spreading of the micro-blasé then new samples will be lab - tested and submitted to the OCD for approval prior to any further action.

Please be advised that OCD approval of this plan does not relieve your company of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve your company of responsibility for compliance with any other applicable **federal**, state, local laws and/or regulations.

**Gerry Guye**

Compliance Officer

NMDCD - Artesia

Office (505)748-1283x105

Mobile (505)626-0843

E-Mail: gerry.guye@state.nm.us

10/29/2007

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**I. Company Contact(s)**

NAME	Company	Telephone	E-mail
Rick Kerby	Oxy	505-887-8337	rick_kerby@oxy.com

**II. Background**

The subject site is a release, which occurred on October 4, 2007. This release was caused by an air compressor which failed to work properly, causing the dump valves to the gun barrel to remain open. This caused the piping and the bottom of the tank to be blown out. Approximately 750 barrels of produced water and 12 barrels of oil were released, of which 500 barrels of the produced water was recovered.

**III. Driving Directions to Location**

Leaving Carlsbad and US 285 North, turn west (left) onto NM 137. Proceed straight on NM 137 approximately 6.3 miles. Turn south (left) onto lease road and proceed approximately 4.3 miles to location.

**III. Surface and Ground Water**

The closest groundwater of record was listed with the Office of the State Engineer. This well is located in Section 2, Township 22 South, Range 24 East. The depth of water is greater than 50', giving this well a ranking of 10.

**IV Soils**

*(need soil information).*

**V. Delineation Plan**

Safety and Environmental Solutions, Inc. (SESI) took samples of soils for testing. The results are listed in Appendix C – Chloride Samples.

**VI. Work Plan**

Knapf was used to soak up excess fluids and other hydrocarbons around tank and in the pasture. Contaminated surface soil below dike and inside fenced area will be excavated and hauled to disposal. Plastic will be laid between dike and fenced area, and a secondary containment dike will be added inside the fence, to act as a collection site. The dike will be kept empty. Micro-blasé microbes will be sprayed on contaminated areas and maintained. Area will be inspected periodically and microbes added as needed. Pictures will be used to document recovery process of pasture. (History has proven that disruption to native plant life by mechanical means only adds to damage done to pastures.)

**VII. Figures & Appendices**

Figure 1 – Vicinity Map

Appendix A – C-141

Appendix B – Site Photos

Appendix C – Chloride Samples



# Figure 1 Vicinity Map



# Appendix A C-141

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

State of New Mexico  
 Energy Minerals and Natural Resources

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

Form C-141  
 Revised October 10, 2003

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <b>OXY USA WTP LP</b>	Contact <b>RICK KERBY, HES SPECIALIST</b>
Address <b>102 S. Main St., POB 1988, Carlsbad, NM 88220</b>	Telephone No. <b>505-887-8337</b>
Facility Name <b>Big Walt</b>	Facility Type <b>Central Tank Battery</b>

Surface Owner <b>BLM</b>	Mineral Owner	Lease No.
--------------------------	---------------	-----------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	<b>2</b>	<b>22 South</b>	<b>24 East</b>					<b>Eddy</b>

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

### NATURE OF RELEASE

Type of Release <b>Water/Oil</b>	Volume of Release <b>750 bbls wtr 12 bbls oil</b>	Volume Recovered <b>500 bbls oil-water</b>
Source of Release <b>Leak on Gun Barrel</b>	Date and Hour of Occurrence <b>10/04/07 09:30a.m.</b>	Date and Hour of Discovery <b>10/04/07 10:30a.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

**Not applicable**

Describe Cause of Problem and Remedial Action Taken.\*

**Air compressor failed, so dump valves to gun barrel hung open, which blew piping and bottom out of tank. Vacuum truck called and picked up what it could before water soaked into ground.**

Describe Area Affected and Cleanup Action Taken \*

**Most of fluid stayed on location. Ground will be allowed to dry, soil samples will be collected, and a work plan will be formulated and submitted to NMOCD.**

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

### OIL CONSERVATION DIVISION

Signature:

Printed Name: **Rick Kerby**

Approved by District Supervisor:

Title: **HES Specialist**

Approval Date

Expiration Date:

E-mail Address: **rick\_kerby@oxy.com**

Conditions of Approval:

Attached ☐

Date **10/11/2007**

Phone: **505-887-8337 (O)  
505-390-8639 (C)**

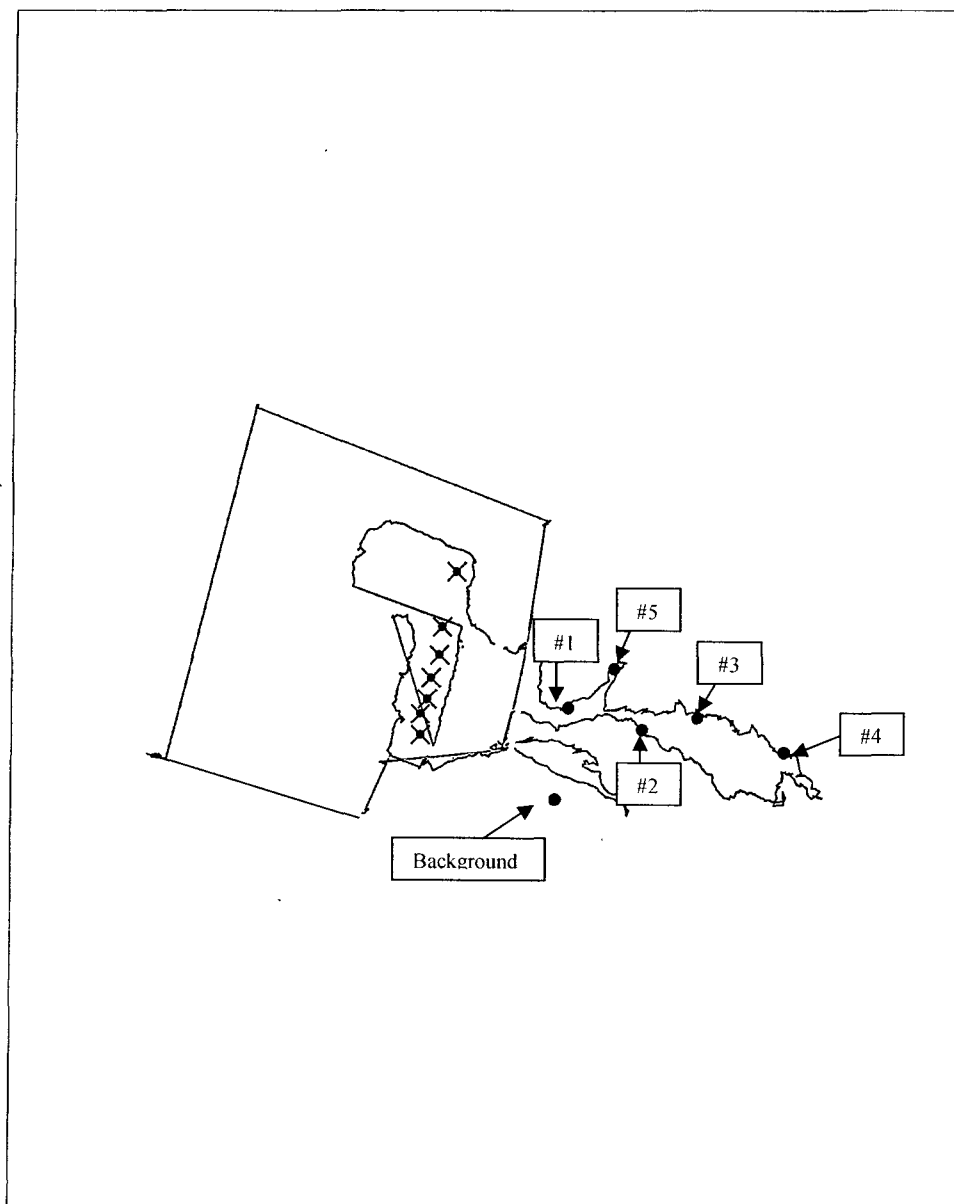
\* Attach Additional Sheets If Necessary

## **Appendix C**

### **Soil Samples**

## Soil Samples

Sample Point	Chlorides	Benzene	Toluene	Ethyl Benzene	Xyolene	TPH
#1	300	ND	19	6.1	69	75,000
#2	130	ND	6.8	2.6	36	51,000
#3	200	ND	9.9	3.6	36	48,000
#4	560	ND	1.1	0.80	6.5	28,000
#5	92	ND	93	27	300	87,000
Background	ND	ND	ND	ND	ND	ND



## Big Walt Battery

Lat/Long  
WGS 1984



Scale 1:2,000  
0 250.0  
Feet

Multiple Files  
10/11/2007

GPS Pathfinder<sup>®</sup> Office  
 **Trimble**<sup>™</sup>



## APPENDIX C

### Photographic Documentation





View of initial release, facing north.



View of initial release, facing west.





View of release area during excavation activities, facing west.



View of release area during excavation activities, facing southwest.



Date & Time: Thu. Sep 29, 2022 at 13:22:06 MDT  
Position: +032.422785° / -104.459710° ( $\pm 11.6$ ft)  
Altitude: 3869ft ( $\pm 9.8$ ft)  
Datum: WGS-84  
Azimuth/Bearing: 114° S66E 2027mils True ( $\pm 11^\circ$ )  
Elevation Angle: -23.3°  
Horizon Angle: -02.1°  
Zoom: 0.5X



View of release area during excavation activities, facing southeast.

Date & Time: Thu. Sep 29, 2022 at 13:21:18 MDT  
Position: +032.422926° / -104.459730° ( $\pm 20.4$ ft)  
Altitude: 3868ft ( $\pm 9.8$ ft)  
Datum: WGS-84  
Azimuth/Bearing: 057° N57E 1013mils True ( $\pm 11^\circ$ )  
Elevation Angle: -20.5°  
Horizon Angle: -02.3°  
Zoom: 0.5X



View of release area during excavation activities, facing northeast.





## APPENDIX D

### Table

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 RP-9 - 10.4.07 (Big Walt 2 State #008)  
 Oxy USA Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417067

Sample Designation	Date	Depth (inches bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Floor Sample Analytical Results												
FS-1	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-2	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.6	16.7	69.3	32.0
FS-3	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-4	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	80.5	36.8	117	<16.0
	9/29/2022	12	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-5	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	196	96.3	292	<16.0
	9/29/2022	12	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-6	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	866	358	1,224	16.0
	9/29/2022	12	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-7	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	174	95.8	270	32.0
	9/29/2022	12	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-8	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.1	11.3	24.4	<16.0
FS-9	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,470	628	2,098	<16.0
	9/29/2022	24	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-10	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	61.7	65.0	127	32.0
	9/29/2022	12	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-11	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-12	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-13	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-14	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.8	<10.0	24.8	32.0
FS-15	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-16	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-17	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.6	<10.0	14.6	16.0
FS-18	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-19	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.5	<10.0	24.5	<16.0
FS-20	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.4	<10.0	40.4	<16.0
FS-21	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-22	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.2	<10.0	23.2	<16.0
FS-23	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-24	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.9	<10.0	27.9	<16.0
FS-25	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.8	<10.0	44.8	<16.0
FS-26	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-27	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-28	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-29	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.4	<10.0	21.4	16.0
FS-30	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**2RP-9 - 10.4.07 (Big Walt 2 State #008)**  
**Oxy USA Inc.**  
**Eddy County, New Mexico**  
**Ensolum Project No. 03B1417067**

Sample Designation	Date	Depth (inches bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Floor Sample Analytical Results												
FS-31	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-32	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-33	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	761	293	1,054	<16.0
	9/29/2022	12	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-34	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	310	115	425	<16.0
	9/29/2022	36	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-35	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-36	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-37	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-38	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-39	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-40	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-41	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-42	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-43	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-44	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.9	12.4	54.3	32.0
FS-45	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-46	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-47	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-48	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-49	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-50	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.0	15.8	61.8	32.0
FS-51	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.8	<10.0	15.8	32.0
FS-52	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-53	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-54	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-55	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-56	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-57	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-58	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-59	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-60	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**2RP-9 - 10.4.07 (Big Walt 2 State #008)**  
**Oxy USA Inc.**  
**Eddy County, New Mexico**  
**Ensolum Project No. 03B1417067**

Sample Designation	Date	Depth (inches bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Floor Sample Analytical Results												
FS-61	9/2/2022	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-62	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-63	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-64	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-65	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.3	<10.0	15.3	<16.0
FS-66	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-67	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-68	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	60.7	15.3	76.0	<16.0
FS-69	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-70	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-71	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-72	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-73	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.4	<10.0	28.4	16.0
FS-74	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.8	<10.0	15.8	32.0
FS-75	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	206	89.1	295	32.0
	9/29/2022	36	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-76	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.4	34.4	96.8	<16.0
FS-77	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57.6	16.2	73.8	32.0
FS-78	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-79	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-80	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.0	<10.0	18.0	32.0
FS-81	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.7	<10.0	22.7	<16.0
FS-82	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	104	30.7	135	16.0
	9/29/2022	36	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-83	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-84	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.2	<10.0	20.2	<16.0
FS-85	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
*FS-86	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,770	593	2,363	<16.0
	9/29/2022	48	NS					<10.0	70.3	16.5	86.8	NS
FS-87	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-88	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-89	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-90	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**2RP-9 - 10.4.07 (Big Walt 2 State #008)**  
**Oxy USA Inc.**  
**Eddy County, New Mexico**  
**Ensolum Project No. 03B1417067**

Sample Designation	Date	Depth (inches bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)</b>			<b>10</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Floor Sample Analytical Results</b>												
FS-91	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>45.6</b>	<10.0	<b>45.6</b>	<16.0
FS-92	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>35.6</b>	<10.0	<b>35.6</b>	<16.0
FS-93	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-94	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-95	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS-96	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-97	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
*FS-98	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>101</b>	<b>24.8</b>	<b>126</b>	<16.0
	9/29/2022	72	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-99	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>25.1</b>	<10.0	<b>25.1</b>	<b>32.0</b>
FS-100	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>54.5</b>	<b>15.2</b>	<b>69.7</b>	<b>32.0</b>
FS-101	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>24.0</b>	<10.0	<b>24.0</b>	<b>32.0</b>
*FS-102	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>110</b>	<b>26.7</b>	<b>137</b>	<b>48.0</b>
	9/29/2022	72	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-103	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-104	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-105	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-106	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
FS-107	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS-108	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS-109	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
FS-110	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-111	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-112	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-113	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-114	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-115	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
FS-116	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-117	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-118	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
FS-119	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS-120	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>




**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**2RP-9 - 10.4.07 (Big Walt 2 State #008)**  
**Oxy USA Inc.**  
**Eddy County, New Mexico**  
**Ensolum Project No. 03B1417067**

Sample Designation	Date	Depth (inches bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Floor Sample Analytical Results												
FS-121	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-122	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-123	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-124	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-125	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-126	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-127	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-128	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-129	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-130	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
*FS-131	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	188	47.5	236	<16.0
	9/29/2022	84	NS					<10.0	104	34.8	139	NS
	10/21/2022	108	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-132	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-133	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-134	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-135	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-136	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.1	<10.0	32.1	<16.0
FS-137	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-138	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-139	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-140	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.7	<10.0	21.7	<16.0
FS-141	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-142	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-143	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.7	<10.0	11.7	<16.0
FS-144	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-145	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-146	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.7	<10.0	43.7	<16.0
FS-147	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.5	<10.0	21.5	48.0
FS-148	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-149	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-150	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 2RP-9 - 10.4.07 (Big Walt 2 State #008)  
 Oxy USA Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417067

Sample Designation	Date	Depth (inches bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Floor Sample Analytical Results												
FS-151	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-152	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-153	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-154	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-155	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-156	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>25.1</b>	<10.0	<b>25.1</b>	<16.0
FS-157	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-158	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-159	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-160	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-161	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-162	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
FS-163	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-164	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-165	9/2/2022	0.25 - 0.50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
Sidewall Sample Analytical Results												
SW-86	10/21/2022	0 - 48	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-98	10/21/2022	0 - 72	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-102	10/21/2022	0 - 72	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-131	10/21/2022	0 - 108	NS					<10.0	<10.0	<10.0	<10.0	NS

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

 Over Excavated and/or Re-Sampled

\* Indicates sidewall sample taken

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

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

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September 09, 2022

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG WALT

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 15:14.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 1 0-0.25" (H224051-01)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	1.76	87.9	2.00	2.37	QM-07	
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	<16.0	16.0	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.6 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 2 0-0.25" (H224051-02)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	52.6	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	16.7	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 70.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.9 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 3 0-0.25" (H224051-03)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	09/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.5 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 4 0-0.25" (H224051-04)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	80.5	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	36.8	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 70.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.3 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 5 0-0.25" (H224051-05)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	<16.0	16.0	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	196	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	96.3	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 68.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.2 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 6 0-0.25" (H224051-06)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	866	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	358	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.7 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 7 0-0.25" (H224051-07)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	174	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	95.8	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.4 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 8 0-0.25" (H224051-08)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	13.1	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	11.3	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.0 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 9 0-0.25" (H224051-09)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	<16.0	16.0	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	1470	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	628	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 65.5 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 10 0-0.25" (H224051-10)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	61.7	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	65.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 68.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.4 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 11 0-0.25" (H224051-11)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 74.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.1 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 12 0-0.25" (H224051-12)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.0 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 13 0-0.25" (H224051-13)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 68.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.3 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 14 0-0.25" (H224051-14)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	24.8	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.2 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 15 0-0.25" (H224051-15)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37	
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.7 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 16 0-0.25" (H224051-16)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.8 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 17 0-0.25" (H224051-17)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	14.6	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 70.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.7 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 18 0-0.25" (H224051-18)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 61.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.3 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 19 0-0.25" (H224051-19)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	190	95.1	200	3.82	
<b>DRO &gt;C10-C28*</b>	<b>24.5</b>	10.0	09/06/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.4 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 20 0-0.25" (H224051-20)**

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	09/06/2022	ND	1.76	87.9	2.00	2.37		
Toluene*	<0.050	0.050	09/06/2022	ND	1.87	93.6	2.00	3.35		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.89	94.3	2.00	3.05		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.91	98.5	6.00	3.21		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
<b>DRO &gt;C10-C28*</b>	<b>40.4</b>	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 21 0-0.25" (H224051-21)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416	QM-07
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 112 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 22 0-0.25" (H224051-22)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07		
Total BTX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	23.2	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 23 0-0.25" (H224051-23)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.5 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 24 0-0.25" (H224051-24)**

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	09/06/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
<b>DRO &gt;C10-C28*</b>	<b>27.9</b>	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.0 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 25 0-0.25" (H224051-25)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
<b>DRO &gt;C10-C28*</b>	<b>44.8</b>	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 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: 09/02/2022  
Reported: 09/09/2022  
Project Name: BIG WALT  
Project Number: 03B1417054  
Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 26 0-0.25" (H224051-26)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.5 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 27 0-0.25" (H224051-27)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.2 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 28 0-0.25" (H224051-28)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 29 0-0.25" (H224051-29)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	21.4	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.5 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 30 0-0.25" (H224051-30)**

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	09/06/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	<16.0	16.0	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 31 0-0.25" (H224051-31)**

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	09/06/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07		
Total BTEx	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.7 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 32 0-0.25" (H224051-32)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07		
Total BTX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.8 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 33 0-0.25" (H224051-33)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07		
Total BTX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	761	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	293	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 70.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 34 0-0.25" (H224051-34)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.98	99.7	6.00	1.07		
Total BTX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	310	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	115	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 35 0-0.25" (H224051-35)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.98	99.7	6.00	1.07		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	09/07/2022	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	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 36 0-0.25" (H224051-36)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.98	99.7	6.00	1.07		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 37 0-0.25" (H224051-37)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/07/2022	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	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 38 0-0.25" (H224051-38)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.98	99.7	6.00	1.07		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	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	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.5 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 39 0-0.25" (H224051-39)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.80	90.2	2.00	0.416		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	94.8	2.00	0.624		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	0.670		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.98	99.7	6.00	1.07		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	<16.0	16.0	09/07/2022	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	09/06/2022	ND	191	95.5	200	5.55	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	204	102	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 40 0-0.25" (H224051-40)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.80	90.2	2.00	0.416	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	94.8	2.00	0.624	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	0.670	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.98	99.7	6.00	1.07	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 41 0-0.25" (H224051-41)**

BTEx 8021B		mg/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	QM-07
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 42 0-0.25" (H224051-42)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 97.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 43 0-0.25" (H224051-43)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.8 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 44 0-0.25" (H224051-44)**

BTEx 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49		
DRO >C10-C28*	41.9	10.0	09/06/2022	ND	173	86.7	200	12.4		
EXT DRO >C28-C36	12.4	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 77.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 45 0-0.25" (H224051-45)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 46 0-0.25" (H224051-46)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	16.0	16.0	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 47 0-0.25" (H224051-47)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.8 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 48 0-0.25" (H224051-48)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 49 0-0.25" (H224051-49)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 50 0-0.25" (H224051-50)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	46.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	15.8	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 51 0-0.25" (H224051-51)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	15.8	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 52 0-0.25" (H224051-52)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 53 0-0.25" (H224051-53)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 54 0-0.25" (H224051-54)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	<16.0	16.0	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 55 0-0.25" (H224051-55)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.9 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 56 0-0.25" (H224051-56)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 57 0-0.25" (H224051-57)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 58 0-0.25" (H224051-58)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 59 0-0.25" (H224051-59)**

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/07/2022	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	09/06/2022	ND	198	99.0	200	2.49		
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	173	86.7	200	12.4		
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 97.2 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 60 0-0.25" (H224051-60)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.79	89.3	2.00	0.0834		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	1.48		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.90	95.1	2.00	0.151		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.01	100	6.00	0.533		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.1 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 62 0.25-0.5" (H224051-61)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 63 0.25-0.5" (H224051-62)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 64 0.25-0.5" (H224051-63)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 65 0.25-0.5" (H224051-64)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
<b>DRO &gt;C10-C28*</b>	<b>15.3</b>	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 66 0.25-0.5" (H224051-65)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEX	<0.300	0.300	09/07/2022	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	<16.0	16.0	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 67 0.25-0.5" (H224051-66)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 68 0.25-0.5" (H224051-67)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	<16.0	16.0	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	60.7	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	15.3	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 69 0.25-0.5" (H224051-68)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 70 0.25-0.5" (H224051-69)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 71 0.25-0.5" (H224051-70)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	<16.0	16.0	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.8 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 72 0.25-0.5" (H224051-71)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 73 0.25-0.5" (H224051-72)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	28.4	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.5 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 74 0.25-0.5" (H224051-73)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	15.8	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.8 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 75 0.25-0.5" (H224051-74)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	206	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	89.1	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 73.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.1 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 76 0.25-0.5" (H224051-75)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	62.4	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	34.4	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 77 0.25-0.5" (H224051-76)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	57.6	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	16.2	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 67.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.1 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 78 0.25-0.5" (H224051-77)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTEX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	32.0	16.0	09/07/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 79 0.25-0.5" (H224051-78)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 80 0.25-0.5" (H224051-79)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22		
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	189	94.7	200	2.22	
DRO >C10-C28*	18.0	10.0	09/07/2022	ND	197	98.3	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.9 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 81 0.25-0.5" (H224051-80)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.83	91.7	2.00	3.22	
Toluene*	<0.050	0.050	09/07/2022	ND	1.90	95.0	2.00	3.76	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.5	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.88	98.0	6.00	2.27	
Total BTEX	<0.300	0.300	09/07/2022	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	<16.0	16.0	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
<b>DRO &gt;C10-C28*</b>	<b>22.7</b>	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 82 0.25-0.5" (H224051-81)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEX	<0.300	0.300	09/07/2022	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	16.0	16.0	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	104	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	30.7	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 83 0.25-0.5" (H224051-82)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 84 0.25-0.5" (H224051-83)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
<b>DRO &gt;C10-C28*</b>	<b>20.2</b>	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.1 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 85 0.25-0.5" (H224051-84)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEx	<0.300	0.300	09/07/2022	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	<16.0	16.0	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 86 0.25-0.5" (H224051-85)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEX	<0.300	0.300	09/07/2022	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	<16.0	16.0	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	1770	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	593	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 143 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 87 0.25-0.5" (H224051-86)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEx	<0.300	0.300	09/07/2022	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	<16.0	16.0	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.2 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 88 0.25-0.5" (H224051-87)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 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: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 89 0.25-0.5" (H224051-88)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.6 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 90 0.25-0.5" (H224051-89)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTEX	<0.300	0.300	09/07/2022	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	<16.0	16.0	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.7 % 46.3-178

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**Analytical Results For:**

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

Received: 09/02/2022  
 Reported: 09/09/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/02/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 91 0.25-0.5" (H224051-90)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2022	ND	1.84	92.0	2.00	4.17		
Toluene*	<0.050	0.050	09/07/2022	ND	1.91	95.3	2.00	5.55		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.91	95.6	2.00	3.61		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	5.97	99.5	6.00	4.22		
Total BTX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	197	98.3	200	0.208	
DRO >C10-C28*	45.6	10.0	09/07/2022	ND	207	103	200	0.438	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 70.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.4 % 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

---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Engulum, LLC						P.O. #:					
Project Manager: Beau Jennings						Company: Oxy USA, Inc.					
Address: 601 N. Mainfield St. STE 400						Attn: Wade Dittich					
City: Midland						State: TX Zip: 79701					
Phone #: 332 230 3344 Fax #:						Address:					
Project #: 0381417054 Project Owner: OXY						City:					
Project Name: Big Wall						State: Zip:					
Project Location: Eddy Co.						Phone #: 575-390-2828					
Sample Name: SHANE DICER						Fax #:					
FOR LAB USE ONLY											
Lab I.D.						Sample I.D.					
Sample Depth ft						(G)RAB OR (C)OMP.					
# CONTAINERS						GROUNDWATER					
						WASTEWATER					
						SOIL					
						OIL					
						SLUDGE					
						OTHER :					
ACID/BASE:						ICE / COOL					
OTHER :											
DATE						TIME					
TPH 8015 M						BTEX 80216					
Chlorides 4500											

Page 93 of 101





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b>		<b>P.O. #:</b>			
<b>Address:</b> 601 N. Marland St. STE 400		<b>Company:</b> Oxy USA, Inc.			
<b>City:</b> Midland		<b>Attn:</b> Wade Dittich			
<b>State:</b> TX <b>Zip:</b> 79701		<b>Address:</b>			
<b>Phone #:</b> 432 230 3344 <b>Fax #:</b>		<b>City:</b>			
<b>Project #:</b> 0381417054 <b>Project Owner:</b> Oxy		<b>State:</b> <b>Zip:</b>			
<b>Project Location:</b> Eddy Co.		<b>Phone #:</b> 575-390-2828			
<b>Sampler Name:</b> SHANE DICKE		<b>Fax #:</b>			
<b>FOR LAB USE ONLY</b>					
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>Sample Depth</b>	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER
					ACID/BASE: ICE / COOL OTHER
					<b>PRESERV.</b>
					<b>SAMPLING</b>
					<b>DATE</b> <b>TIME</b>
11	FS-11	0-25	C	1	9-2-22 8:44
12	FS-12	0-25	C	1	9-2-22 8:52
13	FS-13	0-25	C	1	9-2-22 8:09
14	FS-14	0-25	C	1	9-2-22 8:11
15	FS-15	0-25	C	1	9-2-22 8:13
16	FS-16	0-25	C	1	9-2-22 8:15
17	FS-17	0-25	C	1	9-2-22 8:17
18	FS-18	0-25	C	1	9-2-22 8:18
19	FS-19	0-25	C	1	9-2-22 8:19
20	FS-20	0-25	C	1	9-2-22 8:20
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<b>Relinquished By:</b> <i>[Signature]</i> <b>Date:</b> 9-2-22 <b>Time:</b> 10:4					
<b>Received By:</b> <i>[Signature]</i> <b>Date:</b> 9-2-22 <b>Time:</b> 10:4					
<b>Relinquished By:</b> <i>[Signature]</i> <b>Date:</b> 9-2-22 <b>Time:</b> 10:4					
<b>Received By:</b> <i>[Signature]</i> <b>Date:</b> 9-2-22 <b>Time:</b> 10:4					
<b>Remarks:</b>					
<b>Turnaround Time:</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Observed Temp. °C					
<b>Thermometer ID #113</b> <b>Correction Factor:</b> -0.5°C <b>Corrected Temp. °C</b>					
<b>Delivered By:</b> (Circle One) <input type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other: <input type="checkbox"/> <b>Observed Temp. °C</b> <b>Corrected Temp. °C</b> <b>Sample Condition</b> <b>Checked By:</b> <i>[Signature]</i>					

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





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager:		P.O. #:			
Address: 601 N. Marland St. STE 400		Company: Oxy USA, Inc.			
City: Midland		Attn: Wade Dittich			
State: TX Zip: 79701		Address:			
Phone #: 432 230 3344 Fax #:		City:			
Project #: 0381417054 Project Owner: Oxy		State: Zip:			
Project Location: Eddy Co.		Phone #: 575-390-2828			
Sampler Name: SHANE DICKE		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:												ICE / COOL
1834051	FS-21	0-25	C	1	X								9-2-22	821	X	X	X						
	FS-22	0-25	C	1	X								9-2-22	822	X	X	X						
	FS-23	0-25	C	1	X								9-2-22	824	X	X	X						
	FS-24	0-25	C	1	X								9-2-22	826	X	X	X						
	FS-25	0-25	C	1	X								9-2-22	828	X	X	X						
	FS-26	0-25	C	1	X								9-2-22	830	X	X	X						
	FS-27	0-25	C	1	X								9-2-22	832	X	X	X						
	FS-28	0-25	C	1	X								9-2-22	834	X	X	X						
	FS-29	0-25	C	1	X								9-2-22	836	X	X	X						
	FS-30	0-25	C	1	X								9-2-22	838	X	X	X						

Relinquished By: <i>SHANE DICKE</i>	Date: 9-2-22	Received By: <i>Shane Dicke</i>	Date: 9-2-22
Time: 1514		Time: 1514	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <i>SK</i>	Turnaround Time: Thermometer ID #113 Correction Factor: 0.0°C	Standard Kush <input checked="" type="checkbox"/>	Bacteria (only) Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/>	Sample Condition Observed Temp. °C Corrected Temp. °C
--	---	--	-------------------------------------	---	--	--	---

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager:

Address: 601 N. Marland St. STE 400

City: Midland

State: TX Zip: 79701

Phone #: 432 230 3344 Fax #:

Project #: 0381417054 Project Owner: Oxy

Project Name: Big Water

Project Location: Eddy Co.

Sampler Name: SHANE DICER

FOR LAB USE ONLY

## BILL TO

P.O. #:

Company: Oxy USA, Inc.

Attn: Wade Dittich

Address:

City:

State: Zip:

Phone #: 575-390-2828

Fax #:

## ANALYSIS REQUEST

Project Manager:		Address: 601 N. Martenfeld St. STE 400		P.O. #:	
City: Midland		State: TX Zip: 79701		Company: Oxy USA, Inc.	
Phone #: 432 230 3344 Fax #:		Attn: Wade Dittich		Address:	
Project #: 0381417054		Project Owner: Oxy		City:	
Project Name: B.g. W. A. I.		State: Zip:		Phone #: 575-390-2828	
Project Location: Eddy Co.		Fax #:		SAMPLING	
Sampler Name: SHANE DICKE		PRESERV.		DATE TIME	
FOR LAB USE ONLY		MATRIX		TPH 8015 M	
Lab I.D.		Sample I.D.		BTEX 80216	
		Sample Depth (feet) in		Chlorides 4500	
		(G)RAB OR (C)OMP			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER			
		ACID/BASE:			
		ICE / COOL			
		OTHER :			
#641051		FS-41		9-2-22 904	
41		0-0.25		X	
42		FS-42		9-2-22 905	
43		FS-43		9-2-22 906	
44		FS-44		9-2-22 907	
45		FS-45		9-2-22 908	
46		FS-46		9-2-22 913	
47		FS-47		9-2-22 915	
48		FS-48		9-2-22 917	
49		FS-49		9-2-22 919	
50		FS-50		9-2-22 921	

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Relinquished By:

Date: 9-2-22

Time: 1514

Received By: Spedriquer

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Remarks: All Results are emailed. Please provide Email address: B.lennings@ensolum.com

Relinquished By:

Date:

Time:

Received By:

Remarks:

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Turnaround Time:

Standard

☒ Bacteria (only)

Sample Condition

Observed Temp. °C

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Turnaround Time:

Standard

☒ Bacteria (only)

Sample Condition

Observed Temp. °C

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		<b>BILL TO</b>		P.O. #:		ANALYSIS REQUEST	
Project Manager:		Address: 601 N. Marland St. STE 400		Company: Oxy USA, Inc.			
City: Midland		State: TX Zip: 79701		Attn: Wade Dittich			
Phone #: 432 230 3344 Fax #:		Address:		City:			
Project #: 0381417054 Project Owner: Oxy		State:		Zip:			
Project Name: Big Water		Phone #:		Fax #:			
Project Location: Eddy Co.		DATE		TIME			
Sample Name: SHANE DICKE		TPH 8015 M		BTEX 80216		Chlorides 4500	
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
					GROUNDWATER		
					WASTEWATER		
					SOIL		
					OIL		
					SLUDGE		
					OTHER :		
					ACID/BASE:		
					ICE / COOL		
					OTHER :		
1631051	FS-51	0-0.25	C	1	X	9-2-22 9:23	X
51	FS-52	0-0.25	C	1	X	9-2-22 9:34	X
53	FS-53	0-0.25	C	1	X	9-2-22 9:36	X
54	FS-54	0-0.25	C	1	X	9-2-22 9:38	X
55	FS-55	0-0.25	C	1	X	9-2-22 9:40	X
56	FS-56	0-0.25	C	1	X	9-2-22 9:42	X
57	FS-57	0-0.25	C	1	X	9-2-22 9:44	X
58	FS-58	0-0.25	C	1	X	9-2-22 9:46	X
59	FS-59	0-0.25	C	1	X	9-2-22 9:48	X
60	FS-60	0-0.25	C	1	X	9-2-22 9:50	X

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Relinquished By: *Shane Dicke* Date: *9-2-22* Time: *1514* Received By: *Wade Dittich* Date: *9-2-22* Time: *1514*

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: ☐ Observed Temp. *30.7* Sample Condition ☒ Cool ☐ Intact ☐ Yes ☐ No CHECKED BY: *Wade Dittich*

Sampler - UPS - Bus - Other: ☐ Corrected Temp. *30.1* ☐ Yes ☐ No ☐ No

Turnaround Time: *Standard* ☒ *Rush* ☐ Bacteria (only) ☐ Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ No Corrected Temp. *30.1*

Thermometer ID #113 *0.5C - 0.1C*

REMARKS:

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

All Results are emailed. Please provide Email address: *blennings@ensolum.com*





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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager:		P.O. #:			
Address: 601 N. Marland St. STE 400		Company: Oxy USA, Inc.			
City: Midland		Attn: Wade Dittich			
State: TX Zip: 79701		Address:			
Phone #: 432 230 3344 Fax #:		City:			
Project #: 03B1417054 Project Owner: OXY		State: Zip:			
Project Location: Eddy Co		Phone #: 575-390-2828			
Sampler Name: SHANE DICKE		Fax #:			

Lab I.D.	Sample I.D.	Sample Depth feet in	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides							
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												ACID/BASE:
4024051	F5-62	1.25-.5		C								9-2-22	953	X	X	X						
	F5-63	1.25-.5		C								9-2-22	955	X	X	X						
	F5-64	1.25-.5		C								9-2-22	957	X	X	X						
	F5-65	1.25-.5		C								9-2-22	1010	X	X	X						
	F5-66	1.25-.5		C								9-2-22	1012	X	X	X						
	F5-67	1.25-.5		C								9-2-22	1014	X	X	X						
	F5-68	1.25-.5		C								9-2-22	1016	X	X	X						
	F5-69	1.25-.5		C								9-2-22	1018	X	X	X						
	F5-70	1.25-.5		C								9-2-22	1020	X	X	X						
	F5-71	1.25-.5		C								9-2-22	1022	X	X	X						

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Relinquished By: <i>Shane Dicke</i>	Date: 9-2-22	Received By: <i>Shane Dicke</i>	Date: 9-2-22
Relinquished By: <i>Shane Dicke</i>	Date: 9-2-22	Received By: <i>Shane Dicke</i>	Date: 9-2-22

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>SD</i>
Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) <input checked="" type="checkbox"/>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Thermometer ID #13	Correction Factor: -0.40°C		Observed Temp. °C
			Corrected Temp. °C

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

All Results are emailed. Please provide Email address:  
Blenings@ensolum.com

REMARKS:





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company: Oxy USA, Inc.					
Address: 601 N. Marlenfeld St. STE 400		Attn: Wade Dittich					
City: Midland State: TX Zip: 79701		Address:					
Phone #: 432 230 3344 Fax #:		City:					
Project #: 0381417054 Project Owner: OKY		State: Zip:					
Project Name: B. G. Wells		Phone #: 575-390-2828					
Project Location: Eddy Co		Fax #:					
Sampler Name: SHANE DICER							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	Sample Depth feet in	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
					GROUNDWATER		
					WASTEWATER		
					SOIL		
					OIL		
					SLUDGE		
					OTHER:		
					ACID/BASE:		
					ICE / COOL		
					OTHER:		
					DATE	TIME	
1024051	FS-92	.25-.5		X	9-2-22	1024	X
	FS-93	.25-.5		X	9-2-22	1026	X
	FS-94	.25-.5		X	9-2-22	1027	X
	FS-95	.25-.5		X	9-2-22	1028	X
	FS-96	.25-.5		X	9-2-22	1029	X
	FS-97	.25-.5		X	9-2-22	1030	X
	FS-98	.25-.5		X	9-2-22	1032	X
	FS-99	.25-.5		X	9-2-22	1034	X
	FS-90	.25-.5		X	9-2-22	1036	X
	FS-81	.25-.5		X	9-2-22	1038	X
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Relinquished By:	Date: 9-3-22	Received By:	Remarks: B. Jennings@ensolum.com				
Relinquished By:	Date: 9-3-22	Received By:	Remarks:				
Delivered By: (Circle One)	Observed Temp: 30.7°C	Sample Condition	Checked By: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp: 30.1°C	Cool Intact: Yes No	Checked By: (Initials)	Thermometer ID #113	Rush	Cool Intact: Yes No	Observed Temp. °C
				Corrected Temp. °C			





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:																	
Project Manager:		Company: Oxy USA, Inc.																	
Address: 601 N. Marlenfeld St. STE 400		Attn: Wade Dittich																	
City: Midland State: TX Zip: 79701		Address:																	
Phone #: 432 230 3344 Fax #:		City:																	
Project #: 0381417054 Project Owner: OXY		State: Zip:																	
Project Name: B. G. Wells		Phone #: 575-390-2828																	
Project Location: Eddy Co		Fax #:																	
Sampler Name: SHANE DICKE		PRESERV. SAMPLING																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015	BTEX 80216	Chlorides 4500	
HB34051	FS- 82	1.25-.5		C			X				X			9-2-22	1040	X	X	X	
83	FS- 85	1.25-.5		C			X				X			9-2-22	1042	X	X	X	
83	FS- 84	1.25-.5		C			X				X			9-2-22	1044	X	X	X	
84	FS- 85	1.25-.5		C			X				X			9-2-22	1046	X	X	X	
85	FS- 86	1.25-.5		C			X				X			9-2-22	1048	X	X	X	
86	FS- 87	1.25-.5		C			X				X			9-2-22	1050	X	X	X	
87	FS- 88	1.25-.5		C			X				X			9-2-22	1052	X	X	X	
88	FS- 89	1.25-.5		C			X				X			9-2-22	1054	X	X	X	
89	FS- 90	1.25-.5		C			X				X			9-2-22	1056	X	X	X	
90	FS- 91	1.25-.5		C			X				X			9-2-22	1058	X	X	X	
PLEASE NOTE: Locality and Damages: Cardinal's facility and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.																			
Relinquished By: [Signature]		Date: 9-2-22		Received By: [Signature]		Date: 9-2-22		Time: 10:40		Turnaround Time: Standard Rush		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C		Corrected Temp. °C	
Relinquished By: [Signature]		Date: 9-2-22		Received By: [Signature]		Date: 9-2-22		Time: 10:40		Turnaround Time: Standard Rush		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C		Corrected Temp. °C	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Thermometer ID #113		Correction Factor: -0.10°C		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C		Corrected Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Yes No		Yes No		Yes No		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C		Corrected Temp. °C	
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com																			

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

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September 08, 2022

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

RE: BIG WALT

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 15:14.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 92 0.25-0.5"	H224052-01	Soil	02-Sep-22 11:00	02-Sep-22 15:14
FS - 93 0.25-0.5"	H224052-02	Soil	02-Sep-22 11:02	02-Sep-22 15:14
FS - 94 0.25-0.5"	H224052-03	Soil	02-Sep-22 11:04	02-Sep-22 15:14
FS - 95 0.25-0.5"	H224052-04	Soil	02-Sep-22 11:06	02-Sep-22 15:14
FS - 96 0.25-0.5"	H224052-05	Soil	02-Sep-22 11:08	02-Sep-22 15:14
FS - 97 0.25-0.5"	H224052-06	Soil	02-Sep-22 11:10	02-Sep-22 15:14
FS - 98 0.25-0.5"	H224052-07	Soil	02-Sep-22 11:12	02-Sep-22 15:14
FS - 99 0.25-0.5"	H224052-08	Soil	02-Sep-22 11:14	02-Sep-22 15:14
FS - 100 0.25-0.5"	H224052-09	Soil	02-Sep-22 11:16	02-Sep-22 15:14
FS - 101 0.25-0.5"	H224052-10	Soil	02-Sep-22 11:18	02-Sep-22 15:14
FS - 102 0.25-0.5"	H224052-11	Soil	02-Sep-22 11:20	02-Sep-22 15:14
FS - 103 0.25-0.5"	H224052-12	Soil	02-Sep-22 11:22	02-Sep-22 15:14
FS - 104 0.25-0.5"	H224052-13	Soil	02-Sep-22 11:24	02-Sep-22 15:14
FS - 105 0.25-0.5"	H224052-14	Soil	02-Sep-22 11:26	02-Sep-22 15:14
FS - 106 0.25-0.5"	H224052-15	Soil	02-Sep-22 11:28	02-Sep-22 15:14
FS - 107 0.25-0.5"	H224052-16	Soil	02-Sep-22 11:30	02-Sep-22 15:14
FS - 108 0.25-0.5"	H224052-17	Soil	02-Sep-22 11:31	02-Sep-22 15:14
FS - 109 0.25-0.5"	H224052-18	Soil	02-Sep-22 11:32	02-Sep-22 15:14
FS - 110 0.25-0.5"	H224052-19	Soil	02-Sep-22 11:33	02-Sep-22 15:14
FS - 111 0.25-0.5"	H224052-20	Soil	02-Sep-22 11:34	02-Sep-22 15:14
FS - 112 0.25-0.5"	H224052-21	Soil	02-Sep-22 11:35	02-Sep-22 15:14
FS - 113 0.25-0.5"	H224052-22	Soil	02-Sep-22 11:36	02-Sep-22 15:14
FS - 114 0.25-0.5"	H224052-23	Soil	02-Sep-22 11:37	02-Sep-22 15:14
FS - 115 0.25-0.5"	H224052-24	Soil	02-Sep-22 11:38	02-Sep-22 15:14
FS - 116 0.25-0.5"	H224052-25	Soil	02-Sep-22 11:39	02-Sep-22 15:14
FS - 117 0.25-0.5"	H224052-26	Soil	02-Sep-22 11:40	02-Sep-22 15:14
FS - 118 0.25-0.5"	H224052-27	Soil	02-Sep-22 11:41	02-Sep-22 15:14

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

FS - 119	0.25-0.5"	H224052-28	Soil	02-Sep-22 11:42	02-Sep-22 15:14
FS - 120	0.25-0.5"	H224052-29	Soil	02-Sep-22 11:43	02-Sep-22 15:14
FS - 121	0.25-0.5"	H224052-30	Soil	02-Sep-22 11:44	02-Sep-22 15:14
FS - 122	0.25-0.5"	H224052-31	Soil	02-Sep-22 11:45	02-Sep-22 15:14
FS - 123	0.25-0.5"	H224052-32	Soil	02-Sep-22 11:46	02-Sep-22 15:14
FS - 124	0.25-0.5"	H224052-33	Soil	02-Sep-22 11:47	02-Sep-22 15:14
FS - 125	0.25-0.5"	H224052-34	Soil	02-Sep-22 11:48	02-Sep-22 15:14
FS - 126	0.25-0.5"	H224052-35	Soil	02-Sep-22 11:49	02-Sep-22 15:14
FS - 127	0.25-0.5"	H224052-36	Soil	02-Sep-22 11:50	02-Sep-22 15:14
FS - 128	0.25-0.5"	H224052-37	Soil	02-Sep-22 11:51	02-Sep-22 15:14
FS - 129	0.25-0.5"	H224052-38	Soil	02-Sep-22 11:52	02-Sep-22 15:14
FS - 130	0.25-0.5"	H224052-39	Soil	02-Sep-22 11:53	02-Sep-22 15:14
FS - 131	0.25-0.5"	H224052-40	Soil	02-Sep-22 11:54	02-Sep-22 15:14
FS - 132	0.25-0.5"	H224052-41	Soil	02-Sep-22 11:55	02-Sep-22 15:14
FS - 133	0.25-0.5"	H224052-42	Soil	02-Sep-22 11:56	02-Sep-22 15:14
FS - 134	0.25-0.5"	H224052-43	Soil	02-Sep-22 11:57	02-Sep-22 15:14
FS - 135	0.25-0.5"	H224052-44	Soil	02-Sep-22 11:58	02-Sep-22 15:14
FS - 136	0.25-0.5"	H224052-45	Soil	02-Sep-22 11:59	02-Sep-22 15:14
FS - 137	0.25-0.5"	H224052-46	Soil	02-Sep-22 11:59	02-Sep-22 15:14
FS - 138	0.25-0.5"	H224052-47	Soil	02-Sep-22 12:00	02-Sep-22 15:14
FS - 139	0.25-0.5"	H224052-48	Soil	02-Sep-22 12:01	02-Sep-22 15:14
FS - 140	0.25-0.5"	H224052-49	Soil	02-Sep-22 12:02	02-Sep-22 15:14
FS - 141	0.25-0.5"	H224052-50	Soil	02-Sep-22 12:02	02-Sep-22 15:14
FS - 142	0.25-0.5"	H224052-51	Soil	02-Sep-22 12:03	02-Sep-22 15:14
FS - 143	0.25-0.5"	H224052-52	Soil	02-Sep-22 12:04	02-Sep-22 15:14
FS - 144	0.25-0.5"	H224052-53	Soil	02-Sep-22 12:05	02-Sep-22 15:14
FS - 145	0.25-0.5"	H224052-54	Soil	02-Sep-22 12:05	02-Sep-22 15:14
FS - 146	0.25-0.5"	H224052-55	Soil	02-Sep-22 12:06	02-Sep-22 15:14
FS - 147	0.25-0.5"	H224052-56	Soil	02-Sep-22 12:07	02-Sep-22 15:14
FS - 148	0.25-0.5"	H224052-57	Soil	02-Sep-22 12:08	02-Sep-22 15:14

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

FS - 149	0.25-0.5"	H224052-58	Soil	02-Sep-22 12:08	02-Sep-22 15:14
FS - 150	0.25-0.5"	H224052-59	Soil	02-Sep-22 12:09	02-Sep-22 15:14
FS - 151	0.25-0.5"	H224052-60	Soil	02-Sep-22 12:10	02-Sep-22 15:14
FS - 152	0.25-0.5"	H224052-61	Soil	02-Sep-22 12:11	02-Sep-22 15:14
FS - 153	0.25-0.5"	H224052-62	Soil	02-Sep-22 12:13	02-Sep-22 15:14
FS - 154	0.25-0.5"	H224052-63	Soil	02-Sep-22 12:14	02-Sep-22 15:14
FS - 155	0.25-0.5"	H224052-64	Soil	02-Sep-22 12:15	02-Sep-22 15:14
FS - 156	0.25-0.5"	H224052-65	Soil	02-Sep-22 12:16	02-Sep-22 15:14
FS - 157	0.25-0.5"	H224052-66	Soil	02-Sep-22 12:16	02-Sep-22 15:14
FS - 158	0.25-0.5"	H224052-67	Soil	02-Sep-22 12:17	02-Sep-22 15:14
FS - 159	0.25-0.5"	H224052-68	Soil	02-Sep-22 12:18	02-Sep-22 15:14
FS - 160	0.25-0.5"	H224052-69	Soil	02-Sep-22 12:19	02-Sep-22 15:14
FS - 161	0.25-0.5"	H224052-70	Soil	02-Sep-22 12:20	02-Sep-22 15:14
FS - 61	0-0.25"	H224052-71	Soil	02-Sep-22 09:51	02-Sep-22 15:14
FS - 162	0.25-0.5"	H224052-72	Soil	02-Sep-22 12:21	02-Sep-22 15:14
FS - 163	0.25-0.5"	H224052-73	Soil	02-Sep-22 12:22	02-Sep-22 15:14
FS - 164	0.25-0.5"	H224052-74	Soil	02-Sep-22 12:23	02-Sep-22 15:14
FS - 165	0.25-0.5"	H224052-75	Soil	02-Sep-22 12:24	02-Sep-22 15:14

09/08/22 - The project name was not read correctly on the COC. This is the revised report with the corrected project name and will replace the one sent earlier today, 09/08/22.

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 92 0.25-0.5"**  
**H224052-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090714	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2090628 JH 07-Sep-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	35.6		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane 80.2 % 45.3-161 2090606 MS 07-Sep-22 8015B

Surrogate: 1-Chlorooctadecane 93.1 % 46.3-178 2090606 MS 07-Sep-22 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 93 0.25-0.5"****H224052-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090714	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			75.2 %	45.3-161		2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			81.3 %	46.3-178		2090606	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 94 0.25-0.5"****H224052-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090714	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			74.2 %	45.3-161		2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			81.3 %	46.3-178		2090606	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 95 0.25-0.5"****H224052-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2090714	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			71.6 %	45.3-161		2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			77.8 %	46.3-178		2090606	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 96 0.25-0.5"****H224052-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			77.8 %	45.3-161		2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.8 %	46.3-178		2090606	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 97 0.25-0.5"****H224052-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			83.3 %	45.3-161		2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			90.2 %	46.3-178		2090606	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 98 0.25-0.5"****H224052-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	101		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	24.8		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			116 %	45.3-161		2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			133 %	46.3-178		2090606	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 99 0.25-0.5"****H224052-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		69.9-140	2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	<b>25.1</b>		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			84.8 %		45.3-161	2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.8 %		46.3-178	2090606	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 100 0.25-0.5"****H224052-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		100 %		69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
DRO >C10-C28*	<b>54.5</b>		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<b>15.2</b>		10.0	mg/kg	1	2090606	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		84.9 %		45.3-161		2090606	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		97.1 %		46.3-178		2090606	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 101 0.25-0.5"****H224052-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090628	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090628	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090628	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<b>24.0</b>		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			88.4 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 102 0.25-0.5"****H224052-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		118 %		69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	110		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	26.7		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		69.7 %		45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		78.9 %		46.3-178		2090607	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 103 0.25-0.5"****H224052-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			74.3 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			81.6 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 104 0.25-0.5"****H224052-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2090629	JH/	07-Sep-22	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctane			62.9 %	45.3-161		2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctadecane			69.1 %	46.3-178		2090607	MS	07-Sep-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 105 0.25-0.5"****H224052-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2090629	JH/	07-Sep-22	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctane			74.2 %	45.3-161		2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctadecane			83.6 %	46.3-178		2090607	MS	07-Sep-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 106 0.25-0.5"****H224052-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		116 %		69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		67.2 %		45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		76.5 %		46.3-178		2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 107 0.25-0.5"****H224052-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140 2090629 JH/ 07-Sep-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane 66.9 % 45.3-161 2090607 MS 07-Sep-22 8015B

Surrogate: 1-Chlorooctadecane 73.5 % 46.3-178 2090607 MS 07-Sep-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 108 0.25-0.5"****H224052-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			71.2 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.1 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 109 0.25-0.5"****H224052-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			69.7 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.0 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 110 0.25-0.5"****H224052-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			69.1 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.6 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 111 0.25-0.5"****H224052-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			51.7 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			57.1 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 112 0.25-0.5"****H224052-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			62.6 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			69.1 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 113 0.25-0.5"****H224052-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			68.7 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			77.6 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 114 0.25-0.5"****H224052-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			117 %	69.9-140		2090629	JH/	07-Sep-22	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctane			72.2 %	45.3-161		2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	46.3-178		2090607	MS	07-Sep-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 115 0.25-0.5"****H224052-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2090718	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	117 %	69.9-140	2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane	74.3 %	45.3-161	2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane	83.2 %	46.3-178	2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 116 0.25-0.5"****H224052-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			69.9 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			78.7 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 117 0.25-0.5"****H224052-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			117 %	69.9-140		2090629	JH/	07-Sep-22	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctane			57.8 %	45.3-161		2090607	MS	07-Sep-22	8015B	
Surrogate: 1-Chlorooctadecane			64.0 %	46.3-178		2090607	MS	07-Sep-22	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 118 0.25-0.5"****H224052-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %	69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			73.1 %	45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			81.4 %	46.3-178		2090607	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 119 0.25-0.5"****H224052-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		116 %		69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		62.8 %		45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		69.0 %		46.3-178		2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 120 0.25-0.5"****H224052-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		116 %		69.9-140		2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090607	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		76.7 %		45.3-161		2090607	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		85.6 %		46.3-178		2090607	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 121 0.25-0.5"**  
**H224052-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090629	JH/	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090629	JH/	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		69.9-140	2090629	JH/	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			80.3 %		45.3-161	2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			83.0 %		46.3-178	2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 122 0.25-0.5"****H224052-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	69.9-140	2090630	JH	07-Sep-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B

Surrogate: 1-Chlorooctane	74.8 %	45.3-161	2090618	MS	07-Sep-22	8015B
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Surrogate: 1-Chlorooctadecane	77.6 %	46.3-178	2090618	MS	07-Sep-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 123 0.25-0.5"****H224052-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			76.2 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.2 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 124 0.25-0.5"****H224052-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %		69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		82.3 %		45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		83.7 %		46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 125 0.25-0.5"****H224052-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			74.3 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			75.7 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 126 0.25-0.5"****H224052-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			78.1 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			78.3 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 127 0.25-0.5"****H224052-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			76.9 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.4 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 128 0.25-0.5"****H224052-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			78.2 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			80.6 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 129 0.25-0.5"****H224052-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			78.1 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.0 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 130 0.25-0.5"****H224052-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			85.8 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			87.4 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 131 0.25-0.5"****H224052-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	188		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	47.5		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			80.7 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.8 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 132 0.25-0.5"****H224052-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			81.7 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.3 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 133 0.25-0.5"****H224052-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.8 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.9 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 134 0.25-0.5"****H224052-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			81.8 %		45.3-161	2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			87.4 %		46.3-178	2090618	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 135 0.25-0.5"****H224052-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090719	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			83.0 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.7 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 136 0.25-0.5"****H224052-45 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	32.1		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			90.3 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			94.1 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 137 0.25-0.5"****H224052-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			89.0 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			91.1 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 138 0.25-0.5"****H224052-47 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			85.6 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.7 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 139 0.25-0.5"****H224052-48 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			86.4 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.7 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 140 0.25-0.5"****H224052-49 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2090630	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
DRO >C10-C28*	21.7		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090618	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			94.4 %	45.3-161		2090618	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			96.4 %	46.3-178		2090618	MS	07-Sep-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 141 0.25-0.5"****H224052-50 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090630	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090630	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140 2090630 JH 07-Sep-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane 78.8 % 45.3-161 2090619 MS 07-Sep-22 8015B

Surrogate: 1-Chlorooctadecane 81.2 % 46.3-178 2090619 MS 07-Sep-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 142 0.25-0.5"****H224052-51 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			86.2 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.4 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 143 0.25-0.5"****H224052-52 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	11.7		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			76.4 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.8 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 144 0.25-0.5"****H224052-53 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			70.1 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			74.3 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 145 0.25-0.5"****H224052-54 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2090707 JH 07-Sep-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane 78.7 % 45.3-161 2090619 MS 07-Sep-22 8015B

Surrogate: 1-Chlorooctadecane 81.1 % 46.3-178 2090619 MS 07-Sep-22 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 146 0.25-0.5"****H224052-55 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	43.7		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			87.0 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 147 0.25-0.5"****H224052-56 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>21.5</b>		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		91.5 %		45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		104 %		46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 148 0.25-0.5"****H224052-57 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			92.5 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			97.6 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 149 0.25-0.5"****H224052-58 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			92.0 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			96.7 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 150 0.25-0.5"****H224052-59 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			98.3 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 151 0.25-0.5"****H224052-60 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			84.4 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			88.9 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 152 0.25-0.5"****H224052-61 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			95.7 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 153 0.25-0.5"****H224052-62 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			92.0 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			97.5 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 154 0.25-0.5"****H224052-63 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			88.6 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.5 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 155 0.25-0.5"****H224052-64 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090720	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			86.9 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			91.5 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 156 0.25-0.5"****H224052-65 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	25.1		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			91.5 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			95.4 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 157 0.25-0.5"****H224052-66 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			93.9 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			100 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 158 0.25-0.5"****H224052-67 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.2 %		69.9-140	2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			87.9 %		45.3-161	2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.7 %		46.3-178	2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 159 0.25-0.5"****H224052-68 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			83.5 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			87.5 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 160 0.25-0.5"****H224052-69 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090619	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			91.3 %	45.3-161		2090619	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			95.0 %	46.3-178		2090619	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 161 0.25-0.5"****H224052-70 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090707	JH	07-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090707	JH	07-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.0 %	69.9-140		2090707	JH	07-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			76.7 %	45.3-161		2090620	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			85.2 %	46.3-178		2090620	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 61 0-0.25"****H224052-71 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090708	JH	08-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090708	JH	08-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			75.8 %	45.3-161		2090620	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			81.8 %	46.3-178		2090620	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 162 0.25-0.5"****H224052-72 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090708	JH	08-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		69.9-140		2090708	JH	08-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane		75.3 %		45.3-161		2090620	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		85.5 %		46.3-178		2090620	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 163 0.25-0.5"****H224052-73 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090708	JH	08-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9-140		2090708	JH	08-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			77.8 %	45.3-161		2090620	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			86.5 %	46.3-178		2090620	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 164 0.25-0.5"****H224052-74 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090708	JH	08-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2090708	JH	08-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			84.6 %	45.3-161		2090620	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			94.0 %	46.3-178		2090620	MS	07-Sep-22	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**FS - 165 0.25-0.5"****H224052-75 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2090721	AC	07-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2090708	JH	08-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2090708	JH	08-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9-140		2090708	JH	08-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2090620	MS	07-Sep-22	8015B	

Surrogate: 1-Chlorooctane			80.9 %	45.3-161		2090620	MS	07-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			90.1 %	46.3-178		2090620	MS	07-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090714 - 1:4 DI Water****Blank (2090714-BLK1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	ND	16.0	mg/kg
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**LCS (2090714-BS1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	432	16.0	mg/kg	400	108	80-120
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**LCS Dup (2090714-BSD1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20
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**Batch 2090718 - 1:4 DI Water****Blank (2090718-BLK1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	ND	16.0	mg/kg
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**LCS (2090718-BS1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (2090718-BSD1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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**Batch 2090719 - 1:4 DI Water****Blank (2090719-BLK1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	ND	16.0	mg/kg
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**LCS (2090719-BS1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	432	16.0	mg/kg	400	108	80-120
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090719 - 1:4 DI Water****LCS Dup (2090719-BSD1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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**Batch 2090720 - 1:4 DI Water****Blank (2090720-BLK1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	ND	16.0	mg/kg							
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**LCS (2090720-BS1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (2090720-BSD1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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**Batch 2090721 - 1:4 DI Water****Blank (2090721-BLK1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	ND	16.0	mg/kg							
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**LCS (2090721-BS1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	400	16.0	mg/kg	400		100	80-120			
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**LCS Dup (2090721-BSD1)**

Prepared &amp; Analyzed: 07-Sep-22

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090628 - Volatiles****Blank (2090628-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.5	69.9-140			

**LCS (2090628-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	1.84	0.050	mg/kg	2.00		92.0	83.4-122			
Toluene	1.91	0.050	mg/kg	2.00		95.3	84.2-126			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.6	84.2-121			
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	89.9-126			
o-Xylene	1.94	0.050	mg/kg	2.00		97.0	84.3-123			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.1	69.9-140			

**LCS Dup (2090628-BSD1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	1.77	0.050	mg/kg	2.00		88.3	83.4-122	4.17	12.6	
Toluene	1.80	0.050	mg/kg	2.00		90.2	84.2-126	5.55	13.3	
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.2	84.2-121	3.61	13.9	
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.7	89.9-126	4.03	13.6	
o-Xylene	1.85	0.050	mg/kg	2.00		92.6	84.3-123	4.61	14.1	
Total Xylenes	5.72	0.150	mg/kg	6.00		95.4	89.1-124	4.22	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.3	69.9-140			

**Batch 2090629 - Volatiles****Blank (2090629-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090629 - Volatiles****Blank (2090629-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0585		mg/kg	0.0500		117	69.9-140			

**LCS (2090629-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	1.80	0.050	mg/kg	2.00		90.1	83.4-122			
Toluene	1.90	0.050	mg/kg	2.00		95.2	84.2-126			
Ethylbenzene	1.92	0.050	mg/kg	2.00		96.0	84.2-121			
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89.9-126			
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.05	0.150	mg/kg	6.00		101	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0570		mg/kg	0.0500		114	69.9-140			

**LCS Dup (2090629-BSD1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	1.73	0.050	mg/kg	2.00		86.7	83.4-122	3.86	12.6	
Toluene	1.86	0.050	mg/kg	2.00		92.8	84.2-126	2.58	13.3	
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.8	84.2-121	3.37	13.9	
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.6	89.9-126	4.38	13.6	
o-Xylene	1.93	0.050	mg/kg	2.00		96.3	84.3-123	4.59	14.1	
Total Xylenes	5.79	0.150	mg/kg	6.00		96.5	89.1-124	4.45	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0571		mg/kg	0.0500		114	69.9-140			

**Batch 2090630 - Volatiles****Blank (2090630-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0551		mg/kg	0.0500		110	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090630 - Volatiles****LCS (2090630-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	1.76	0.050	mg/kg	2.00		87.8	83.4-122			
Toluene	2.16	0.050	mg/kg	2.00		108	84.2-126			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	84.2-121			
m,p-Xylene	4.46	0.100	mg/kg	4.00		112	89.9-126			
o-Xylene	2.19	0.050	mg/kg	2.00		109	84.3-123			
Total Xylenes	6.65	0.150	mg/kg	6.00		111	89.1-124			

Surrogate: 4-Bromofluorobenzene (PID)

0.0547

mg/kg

0.0500

109

69.9-140

**LCS Dup (2090630-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

Benzene	1.77	0.050	mg/kg	2.00		88.6	83.4-122	0.921	12.6	
Toluene	2.12	0.050	mg/kg	2.00		106	84.2-126	1.69	13.3	
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	84.2-121	1.54	13.9	
m,p-Xylene	4.57	0.100	mg/kg	4.00		114	89.9-126	2.46	13.6	
o-Xylene	2.24	0.050	mg/kg	2.00		112	84.3-123	2.45	14.1	
Total Xylenes	6.82	0.150	mg/kg	6.00		114	89.1-124	2.45	13.4	

Surrogate: 4-Bromofluorobenzene (PID)

0.0559

mg/kg

0.0500

112

69.9-140

**Batch 2090707 - Volatiles****Blank (2090707-BLK1)**

Prepared &amp; Analyzed: 07-Sep-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							

Surrogate: 4-Bromofluorobenzene (PID)

0.0503

mg/kg

0.0500

101

69.9-140

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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090707 - Volatiles****LCS (2090707-BS1)**

Prepared &amp; Analyzed: 07-Sep-22

Benzene	1.98	0.050	mg/kg	2.00		98.8	83.4-122			
Toluene	1.95	0.050	mg/kg	2.00		97.5	84.2-126			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.7	84.2-121			
m,p-Xylene	4.02	0.100	mg/kg	4.00		101	89.9-126			
o-Xylene	1.91	0.050	mg/kg	2.00		95.6	84.3-123			
Total Xylenes	5.94	0.150	mg/kg	6.00		98.9	89.1-124			

Surrogate: 4-Bromofluorobenzene (PID) 0.0487 mg/kg 0.0500 97.5 69.9-140

**LCS Dup (2090707-BS1)**

Prepared &amp; Analyzed: 07-Sep-22

Benzene	1.74	0.050	mg/kg	2.00		87.1	83.4-122	12.6	12.6	
Toluene	1.73	0.050	mg/kg	2.00		86.3	84.2-126	12.2	13.3	
Ethylbenzene	1.71	0.050	mg/kg	2.00		85.7	84.2-121	12.1	13.9	
m,p-Xylene	3.60	0.100	mg/kg	4.00		90.1	89.9-126	11.0	13.6	
o-Xylene	1.73	0.050	mg/kg	2.00		86.5	84.3-123	9.94	14.1	
Total Xylenes	5.33	0.150	mg/kg	6.00		88.9	89.1-124	10.7	13.4	BS-3

Surrogate: 4-Bromofluorobenzene (PID) 0.0493 mg/kg 0.0500 98.6 69.9-140

**Batch 2090708 - Volatiles****Blank (2090708-BLK1)**

Prepared: 07-Sep-22 Analyzed: 08-Sep-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							

Surrogate: 4-Bromofluorobenzene (PID) 0.0501 mg/kg 0.0500 100 69.9-140

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090708 - Volatiles****LCS (2090708-BS1)**

Prepared: 07-Sep-22 Analyzed: 08-Sep-22

Benzene	1.94	0.050	mg/kg	2.00		96.9	83.4-122			
Toluene	1.93	0.050	mg/kg	2.00		96.4	84.2-126			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.8	84.2-121			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89.9-126			
o-Xylene	1.91	0.050	mg/kg	2.00		95.6	84.3-123			
Total Xylenes	5.92	0.150	mg/kg	6.00		98.7	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	69.9-140			

**LCS Dup (2090708-BSD1)**

Prepared: 07-Sep-22 Analyzed: 08-Sep-22

Benzene	1.97	0.050	mg/kg	2.00		98.4	83.4-122	1.47	12.6	
Toluene	1.94	0.050	mg/kg	2.00		97.1	84.2-126	0.694	13.3	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	84.2-121	0.0946	13.9	
m,p-Xylene	3.98	0.100	mg/kg	4.00		99.6	89.9-126	0.692	13.6	
o-Xylene	1.89	0.050	mg/kg	2.00		94.6	84.3-123	0.978	14.1	
Total Xylenes	5.88	0.150	mg/kg	6.00		97.9	89.1-124	0.784	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.7	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090606 - General Prep - Organics****Blank (2090606-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.6		mg/kg	50.0		77.1	45.3-161			
Surrogate: 1-Chlorooctadecane	42.3		mg/kg	50.0		84.6	46.3-178			

**LCS (2090606-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	197	10.0	mg/kg	200		98.3	76.8-124			
DRO >C10-C28	207	10.0	mg/kg	200		103	74.9-127			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.5-124			
Surrogate: 1-Chlorooctane	44.3		mg/kg	50.0		88.7	45.3-161			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	46.3-178			

**LCS Dup (2090606-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	196	10.0	mg/kg	200		98.1	76.8-124	0.208	17.2	
DRO >C10-C28	208	10.0	mg/kg	200		104	74.9-127	0.438	18.6	
Total TPH C6-C28	404	10.0	mg/kg	400		101	77.5-124	0.124	17.6	
Surrogate: 1-Chlorooctane	44.1		mg/kg	50.0		88.3	45.3-161			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	46.3-178			

**Batch 2090607 - General Prep - Organics****Blank (2090607-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	34.6		mg/kg	50.0		69.2	45.3-161			
Surrogate: 1-Chlorooctadecane	37.8		mg/kg	50.0		75.6	46.3-178			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090607 - General Prep - Organics****LCS (2090607-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	185	10.0	mg/kg	200		92.6	76.8-124		
DRO >C10-C28	159	10.0	mg/kg	200		79.4	74.9-127		
Total TPH C6-C28	344	10.0	mg/kg	400		86.0	77.5-124		
Surrogate: 1-Chlorooctane	41.0		mg/kg	50.0		82.1	45.3-161		
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.1	46.3-178		

**LCS Dup (2090607-BSD1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	198	10.0	mg/kg	200		98.8	76.8-124	6.47	17.2
DRO >C10-C28	170	10.0	mg/kg	200		85.0	74.9-127	6.87	18.6
Total TPH C6-C28	368	10.0	mg/kg	400		91.9	77.5-124	6.65	17.6
Surrogate: 1-Chlorooctane	41.5		mg/kg	50.0		83.0	45.3-161		
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.4	46.3-178		

**Batch 2090618 - General Prep - Organics****Blank (2090618-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	38.2		mg/kg	50.0		76.5	45.3-161		
Surrogate: 1-Chlorooctadecane	38.5		mg/kg	50.0		77.0	46.3-178		

**LCS (2090618-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	184	10.0	mg/kg	200		92.0	76.8-124		
DRO >C10-C28	178	10.0	mg/kg	200		88.8	74.9-127		
Total TPH C6-C28	362	10.0	mg/kg	400		90.4	77.5-124		
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.5	45.3-161		
Surrogate: 1-Chlorooctadecane	43.8		mg/kg	50.0		87.7	46.3-178		

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090618 - General Prep - Organics****LCS Dup (2090618-BSD1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	197	10.0	mg/kg	200		98.5	76.8-124	6.87	17.2	
DRO >C10-C28	189	10.0	mg/kg	200		94.7	74.9-127	6.42	18.6	
Total TPH C6-C28	386	10.0	mg/kg	400		96.6	77.5-124	6.65	17.6	
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.7	45.3-161			
Surrogate: 1-Chlorooctadecane	44.8		mg/kg	50.0		89.7	46.3-178			

**Batch 2090619 - General Prep - Organics****Blank (2090619-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.8		mg/kg	50.0		81.5	45.3-161			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.1	46.3-178			

**LCS (2090619-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	182	10.0	mg/kg	200		90.8	76.8-124			
DRO >C10-C28	190	10.0	mg/kg	200		94.9	74.9-127			
Total TPH C6-C28	371	10.0	mg/kg	400		92.9	77.5-124			
Surrogate: 1-Chlorooctane	44.7		mg/kg	50.0		89.5	45.3-161			
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.6	46.3-178			

**LCS Dup (2090619-BSD1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	189	10.0	mg/kg	200		94.3	76.8-124	3.79	17.2	
DRO >C10-C28	200	10.0	mg/kg	200		100	74.9-127	5.34	18.6	
Total TPH C6-C28	389	10.0	mg/kg	400		97.2	77.5-124	4.58	17.6	
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.2	45.3-161			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.5	46.3-178			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BIG WALT  
Project Number: 03B1417054  
Project Manager: BEAUX JENNINGS  
Fax To:

Reported:  
08-Sep-22 15:23

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2090620 - General Prep - Organics****Blank (2090620-BLK1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	39.8		mg/kg	50.0		79.6	45.3-161		
Surrogate: 1-Chlorooctadecane	44.0		mg/kg	50.0		88.0	46.3-178		

**LCS (2090620-BS1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	195	10.0	mg/kg	200		97.6	76.8-124		
DRO >C10-C28	167	10.0	mg/kg	200		83.7	74.9-127		
Total TPH C6-C28	363	10.0	mg/kg	400		90.7	77.5-124		
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.7	45.3-161		
Surrogate: 1-Chlorooctadecane	50.3		mg/kg	50.0		101	46.3-178		

**LCS Dup (2090620-BSD1)**

Prepared: 06-Sep-22 Analyzed: 07-Sep-22

GRO C6-C10	191	10.0	mg/kg	200		95.5	76.8-124	2.17	17.2
DRO >C10-C28	179	10.0	mg/kg	200		89.4	74.9-127	6.53	18.6
Total TPH C6-C28	370	10.0	mg/kg	400		92.4	77.5-124	1.94	17.6
Surrogate: 1-Chlorooctane	42.7		mg/kg	50.0		85.4	45.3-161		
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.8	46.3-178		

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST												
Project Manager:		Company: Oxy USA, Inc.																
Address: 601 N. Marland St. STE 400		Attn: Wade Dittich																
City: Midland		State: TX Zip: 79701																
Phone #: 432 230 3344 Fax #:		Address:																
Project #: 0381417054 Project Owner: OXY		City:																
Project Name: B. G. Wells		State: Zip:																
Project Location: Eddy Co		Phone #: 575-390-2828																
Sample Name: SHANE DILLER		Fax #:																
FOR LAB USE ONLY		PRESERV		SAMPLING														
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH 8015	BTEX 80216	Chlorides 4500
100-1050	FS-92	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1100	X	X	X
	FS-93	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1102	X	X	X
	FS-94	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1104	X	X	X
	FS-95	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1106	X	X	X
	FS-96	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1108	X	X	X
	FS-97	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1110	X	X	X
	FS-98	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1112	X	X	X
	FS-99	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1114	X	X	X
	FS-100	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1116	X	X	X
	FS-101	25-.5		X	X	X	X	X	X	X	X	X	X	9-2-22	1118	X	X	X

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Relinquished By: SHANE DILLER Date: 9/2/22 Time: 1514

Received By: Wade Dittich Date: 9/2/22 Time: 1514

Delivered By: (Circle One) UPS Observed Temp: 30.7° Sample Condition: Cool Intact CHECKED BY: Wade Dittich Turnaround Time: Standard Bacteria (only) Sample Condition: Cool Intact

Sampler - UPS - Bus - Other: UPS Corrected Temp: 30.0° No Yes No Yes No Yes No Yes No Yes No Corrected Temp: 30.0°

Remarks: All Results are emailed. Please provide Email address: B.ennings@ensolum.com

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





ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please email changes to [celey.nevill@carroll.edu](mailto:celey.nevill@carroll.edu)





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

12 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:																
Project Manager:		Company: Oxy USA, Inc.																
Address: 601 N. Marlenfeld St. STE 400		Attn: Wade Dittich																
City: Midland State: TX Zip: 79701		Address:																
Phone #: 432 230 3344 Fax #:		City:																
Project #: 03B1417054 Project Owner: OXY		State: Zip:																
Project Name: B.g Wells		Phone #: 575-390-2828																
Project Location: Eddy Co		Fax #:																
Sampler Name: SHANE DICKEY		PRESERV.																
FOR LAB USE ONLY		SAMPLING																
Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH 8015	BTEX 80216	Chlorides 4500
1034053	FS-112	25-.5		C			X				X			9-2-22	1135	X	X	X
21	FS-113	25-.5		C			X				X			9-2-22	1136	X	X	X
22	FS-114	25-.5		C			X				X			9-2-22	1137	X	X	X
23	FS-115	25-.5		C			X				X			9-2-22	1138	X	X	X
24	FS-116	25-.5		C			X				X			9-2-22	1139	X	X	X
25	FS-117	25-.5		C			X				X			9-2-22	1140	X	X	X
26	FS-118	25-.5		C			X				X			9-2-22	1141	X	X	X
27	FS-119	25-.5		C			X				X			9-2-22	1142	X	X	X
28	FS-120	25-.5		C			X				X			9-2-22	1143	X	X	X
29	FS-121	25-.5		C			X				X			9-2-22	1144	X	X	X
PLEASE NOTE: Locality and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																		
Relinquished By:	Date: 9-2-22	Received By:																
Time: 1514	Date: 9-2-22	Received By: Shadrach																
Relinquished By:	Date:	Received By:																
Time:	Date:	Received By:																
Delivered By: (Circle One)	Observed Temp: 30.7°C	Sample Condition: Cool Intact	CHECKED BY: (Initials)															
Sampler - UPS - Bus - Other:	Corrected Temp: 30.1°C	Cool Intact: Yes																
Turnaround Time: Standard Rush																		
Thermometer ID #113																		
Correction Factor: -0.1°C																		
Bacteria (only) Sample Condition: Cool Intact																		
Corrected Temp. °C																		

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





ANALYSIS REQUEST

13 of 19





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1404

## BILL TO

## ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:	
Project Manager:		Company: Oxy USA, Inc.	
Address: 601 N. Marland St. STE 400		Attn: Wade Dittich	
City: Midland State: TX Zip: 79701		Address:	
Phone #: 432 230 3344 Fax #:		City:	
Project #: 03B1417054 Project Owner: OKY		State: Zip:	
Project Name: B. g. Wells		Phone #: 575-390-2828	
Project Location: Eddy Co		Fax #:	
Sampler Name: SHANE DICKEY		PRESERV:	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	Sample Depth feet in	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
41	FS-132	.25-.5			X							9-2-22	1155	X	X	X
42	FS-133	.25-.5			X							9-2-22	1156	X	X	X
43	FS-134	.25-.5			X							9-2-22	1157	X	X	X
44	FS-135	.25-.5			X							9-2-22	1158	X	X	X
45	FS-136	.25-.5			X							9-2-22	1159	X	X	X
46	FS-137	.25-.5			X							9-2-22	1200	X	X	X
47	FS-138	.25-.5			X							9-2-22	1201	X	X	X
48	FS-139	.25-.5			X							9-2-22	1202	X	X	X
49	FS-140	.25-.5			X							9-2-22	1202	X	X	X
50	FS-141	.25-.5			X							9-2-22	1202	X	X	X

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Relinquished By: *Shane Dickey* Date: *9-2-22* Time: *1514* Received By: *Shodique* Date: *9-2-22* Time: *1514*

Delivered By: (Circle One) ☒ Observed Temp.: *30.7°C* ☐ Corrected Temp.: *30.1°C* Sample Condition: ☐ Cool ☒ Intact ☐ Yes ☒ No CHECKED BY: *JD* (Initials)

Sampler - UPS - Bus - Other: ☐ Turnaround Time: *0.5°C* Standard *Rush* ☒ Bacteria (only) ☐ Sample Condition ☐ Cool ☒ Intact ☐ Yes ☒ No Corrected Temp. °C

Thermometer ID #113 *0.1°C* ☐ Yes ☒ No

Remarks: *B. Jennings@ensolum.com*

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

All Results are emailed. Please provide Email address:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

164

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company: Oxy USA, Inc.					
Address: 601 N. Marland St. STE 400		Attn: Wade Dittich					
City: Midland State: TX Zip: 79701		Address:					
Phone #: 432 230 3344 Fax #:		City:					
Project #: 0381417054 Project Owner: OKY		State: Zip:					
Project Name: B. G. Wells		Phone #:					
Project Location: Eddy Co		Fax #:					
Sampler Name: SHANE DICER							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	Sample Depth feet in	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
					GROUNDWATER		
					WASTEWATER		
					SOIL		
					OIL		
					SLUDGE		
					OTHER:		
					ACID/BASE:		
					ICE / COOL		
					OTHER:		
					DATE	TIME	
1034058	FS-152	.25-.5		X	9-2-22	1211	TPH 8015
103	FS-153	.25-.5		X	9-2-22	1213	BTEX 80216
103	FS-154	.25-.5		X	9-2-22	1214	Chlorides 4500
104	FS-155	.25-.5		X	9-2-22	1215	
105	FS-156	.25-.5		X	9-2-22	1216	
106	FS-157	.25-.5		X	9-2-22	1217	
108	FS-158	.25-.5		X	9-2-22	1218	
109	FS-159	.25-.5		X	9-2-22	1219	
109	FS-160	.25-.5		X	9-2-22	1220	
109	FS-161	.25-.5		X	9-2-22	1220	
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Relinquished By:	Date: 9-2-22	Time: 1514	Received By:	Remarks:			
Relinquished By:	Date: 9-2-22	Time: 1514	Received By:	Remarks:			
Delivered By: (Circle One)	Observed Temp: 30.7°C	Sample Condition: Cool Intact	Checked By: (Initials)	Turnaround Time: Standard Rush			
Sampler - UPS - Bus - Other:	Corrected Temp: 30.1°C	Sample Condition: Cool Intact	Checked By: (Initials)	Thermometer ID #113			
				Corrosion Factor: 0.00			
				Bacteria (only) Sample Condition: Cool Intact			
				Corrected Temp: °C			

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Beauv Services <b>Address:</b> 601 N. Marshall St. Suite 400 <b>City:</b> Midland State: TX Zip: 79701 <b>Phone #:</b> 432-230-3344 <b>Fax #:</b> <b>Project #:</b> 0381417054 <b>Project Owner:</b> <b>Project Name:</b> Big Wolf <b>Project Location:</b> Eddy County <b>Sampler Name:</b> Shane Diller				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oly USA, inc. <b>Attn:</b> Wade Dittich <b>Address:</b> <b>City:</b> <b>State:</b> Zip: <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>							
<b>FOR LAB USE ONLY</b>		<b>Depth</b> (in)		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ICE / COOL OTHER:		<b>SAMPLING</b> DATE TIME		TPH 8015 BTEX 8021 b Chlorides 4500	
<b>Lab I.D.</b> H924053		<b>Sample I.D.</b> FS-61 FS-162 FS-163 FS-164 FS-165 NTE		0-0.25 0.25-5 0.25-5 0.25-5 0.25-5		C 1 C 1 C 1 C 1 C 1		X X X X X		X X X X X		9/2/22 9:51 9/2/22 12:21 9/2/22 12:22 9/2/22 12:23 9/2/22 12:24		X X X X X	
<b>Relinquished By:</b> [Signature]		<b>Date:</b> 9/2/22		<b>Received By:</b> [Signature]		<b>Date:</b> 9/2/22		<b>Time:</b> 1514		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>		<b>REMARKS:</b>		<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>	
<b>Relinquished By:</b> [Signature]		<b>Date:</b> 9/2/22		<b>Received By:</b> [Signature]		<b>Date:</b> 9/2/22		<b>Time:</b> 1514		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>		<b>REMARKS:</b>		<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> 30.72		<b>Corrected Temp. °C</b> 30.12		<b>Sample Condition</b> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		<b>CHECKED BY:</b> (Initials)		<b>Turnaround Time:</b>		<b>Thermometer ID #113</b>		<b>Correction Factor -0.5°C</b>	
<b>FORM 006 R3.3 07/10/22</b>		<b>Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</b>		<b>Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</b>		<b>Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</b>		<b>Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</b>		<b>Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</b>		<b>Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</b>		<b>Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</b>	



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October 04, 2022

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

RE: BIG WALT

Enclosed are the results of analyses for samples received by the laboratory on 09/29/22 15:13.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 4 1' (H224540-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	101 %	45.3-161							
Surrogate: 1-Chlorooctadecane	117 %	46.3-178							

**Sample ID: FS - 5 1' (H224540-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	100 %	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



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**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 6 1' (H224540-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	104 %	45.3-161							
Surrogate: 1-Chlorooctadecane	123 %	46.3-178							

**Sample ID: FS - 7 1' (H224540-04)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	81.6 %	45.3-161							
Surrogate: 1-Chlorooctadecane	98.4 %	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: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 9 2' (H224540-05)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	106 %	45.3-161							
Surrogate: 1-Chlorooctadecane	122 %	46.3-178							

**Sample ID: FS - 10 1' (H224540-06)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	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: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 33 1' (H224540-07)**

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	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	89.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	103 %	46.3-178							

**Sample ID: FS - 34 3' (H224540-08)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	105 %	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: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 75 3' (H224540-09)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	129 %	45.3-161							
Surrogate: 1-Chlorooctadecane	152 %	46.3-178							

**Sample ID: FS - 82 3' (H224540-10)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	137 %	45.3-161							
Surrogate: 1-Chlorooctadecane	160 %	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: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 86 4' (H224540-11)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
<b>DRO &gt;C10-C28*</b>	<b>70.3</b>	10.0	10/01/2022	ND	211	106	200	0.437	
<b>EXT DRO &gt;C28-C36</b>	<b>16.5</b>	10.0	10/01/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	141 %	45.3-161							
Surrogate: 1-Chlorooctadecane	171 %	46.3-178							

**Sample ID: FS - 98 6' (H224540-12)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	141 %	45.3-161							
Surrogate: 1-Chlorooctadecane	166 %	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: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 102 6' (H224540-13)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	211	106	200	0.437	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	136 %	45.3-161							
Surrogate: 1-Chlorooctadecane	160 %	46.3-178							

**Sample ID: FS - 131 7' (H224540-14)**

TPH 8015M	mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	207	104	200	0.378	
<b>DRO &gt;C10-C28*</b>	<b>104</b>	10.0	10/01/2022	ND	211	106	200	0.437	
<b>EXT DRO &gt;C28-C36</b>	<b>34.8</b>	10.0	10/01/2022	ND					
Surrogate: 1-Chlorooctane	139 %	45.3-161							
Surrogate: 1-Chlorooctadecane	182 %	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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensdun, LLC</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <u>Bruce Jennings</u>		P.O. #:			
Address: <u>601 N Marland St Suite 400</u>		Company: <u>Oxy USA, Inc</u>			
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u>		Attn: <u>Wade Dittich</u>			
Phone #: <u>432 230 3344</u> Fax #:		Address:			
Project #: <u>03B1417054</u> Project Owner: <u>Oxy</u>		City:			
Project Name: <u>Big Well</u>		State:			
Project Location: <u>Eddy County</u>		Zip:			
Sample Name: <u>Samatha Haskins</u>		Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D. <u>H2245-40</u>		DATE		TIME	
Sample I.D. <u>Depth</u>		TPH		8015 M	
1 FS-4 1' C 1 (G)RAB OR (C)OMP. # CONTAINERS		9/26/12		1111	
2 FS-5 1' C 1		9/26/12		1116	
3 FS-6 1' C 1		9/26/12		1120	
4 FS-7 1' C 1		9/26/12		1128	
5 FS-9 2' C 1		9/26/12		1130	
6 FS-10 1' C 1		9/26/12		1132	
7 FS-35 1' C 1		9/26/12		1138	
8 FS-34 3' C 1		9/26/12		1150	
9 FS-75 3' C 1		9/26/12		1202	
10 FS-82 3' C 1		9/26/12		1204	
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Relinquished By: <u>Samatha</u>		Date: <u>9/26/12</u> Time: <u>153</u>		Received By: <u>Shadiq</u>	
Relinquished By: <u>Samatha</u>		Date: <u>9/26/12</u> Time: <u>153</u>		Received By: <u>Shadiq</u>	
Delivered By: (Circle One) <u>UPS</u>		Observed Temp. °C <u>0.0c</u>		Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	
Corrected Temp. °C <u>0.0c</u>		Checked By: <u>SK</u>		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Thermometer ID #113		Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact		Observed Temp. °C	
Correction Factor -0.5°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

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October 27, 2022

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

RE: BIG WALT

Enclosed are the results of analyses for samples received by the laboratory on 10/21/22 14:00.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/21/2022  
 Reported: 10/27/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 86 0'-4' (H224967-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	3.79	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	220	110	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	83.3 %	45.3-161							
Surrogate: 1-Chlorooctadecane	96.0 %	46.3-178							

**Sample ID: SW - 98 0'-6' (H224967-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	3.79	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	220	110	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					
Surrogate: 1-Chlorooctane	71.0 %	45.3-161							
Surrogate: 1-Chlorooctadecane	84.0 %	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: 10/21/2022  
 Reported: 10/27/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 102 0'-6' (H224967-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	3.79	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	220	110	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					
Surrogate: 1-Chlorooctane	66.2 %	45.3-161							
Surrogate: 1-Chlorooctadecane	77.6 %	46.3-178							

**Sample ID: SW - 131 0'-9' (H224967-04)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	3.79	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	220	110	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					
Surrogate: 1-Chlorooctane	72.6 %	45.3-161							
Surrogate: 1-Chlorooctadecane	85.8 %	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: 10/21/2022  
 Reported: 10/27/2022  
 Project Name: BIG WALT  
 Project Number: 03B1417054  
 Project Location: OXY - EDDY, CO.

Sampling Date: 10/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 131 9' (H224967-05)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	229	114	200	3.79	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	220	110	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					
Surrogate: 1-Chlorooctane	78.2 %	45.3-161							
Surrogate: 1-Chlorooctadecane	91.5 %	46.3-178							

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Beaux Jennings

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 210-219-8858

Fax #:

Project #: 03B1417054

Project Owner: Oxy USA Inc.

Project Name: Big Salt CTR

City: State: Zip:

Project Location: Edley Co., New Mexico

Phone #: 575-390-2828

Sample Name: Beaux Jennings

Fax #:

FOR LAB USE ONLY

FOR LAB USE ONLY		Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX						PRESERV.		SAMPLING											

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By:

Date: 10/21/02

Time: 1405

Received By: Beaux Jennings

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

All Results are emailed. Please provide Email address:

Relinquished By:

Date:

Time:

Received By:

REMARKS:

Delivered By: (Circle One)

Observed Temp.: 33

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials) YD

Turnaround Time: Standard

Rush ☒

Bacteria (only) Sample Condition Cool Intact ☒ Yes ☐ No

Sampler UPS - Bus - Other:

Corrected Temp.: 26

Thermometer ID #113

Correction Factor -0.5°C

Corrected Temp.: °C

† 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	nAPP2235540469
District RP	2RP-9
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 # nAPP2235540469
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.42281 Longitude -104.46063  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Big Walt 2 State #008	Site Type: Tank Battery
Date Release Discovered: 10/04/2007	API# 30-015-24509

Unit Letter	Section	Township	Range	County
H	2	22S	24E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 12	Volume Recovered (bbls): 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 750	Volume Recovered (bbls): 500
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" 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: Air compressor failed, so dump valves to gun barrel hung open, which blew piping and bottom out of tank. Vacuum truck called and picked up what it could before water soaked into ground.



State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2235540469
District RP	2RP-9
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ 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)?  
No, historical release.

### Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 1-4-23

email: wade\_dittrich@oxy.com

Telephone: 575-390-2828

#### OCD Only

Received by: Jocelyn Harimon

Date: 1/11/2023

Incident ID	nAPP2235540469
District RP	2RP-9
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?	<u>  N/A  </u> (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 checked="" type="checkbox"/> Yes <input 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 <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input 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 ½-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 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



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State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2235540469
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Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 1-4-23

email: wade\_dittrich@oxy.com

Telephone: 575-390-2828

**OCD Only**

Received by: Jocelyn Harimon

Date: 1/11/2023



State of New Mexico  
Oil Conservation Division

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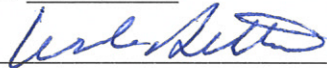
## Closure

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 DittrichTitle: Environmental SpecialistSignature: Date: 1-4-23email: wade\_dittrich@oxy.comTelephone: 575-390-2828**OCD Only**Received by: Jocelyn HarimonDate: 1/11/2023

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: 3/20/2023Printed Name: Ashley MaxwellTitle: Environmental Specialist

**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 175068

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 175068
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	3/20/2023