



December 9, 2024

District II  
New Mexico Oil Conservation Division  
811 S. First Street  
Artesia, New Mexico 88210

**Re: Closure Request  
Federal 01 Battery  
API Number: 30-015-26775  
BLM Lease Number: NM-12845  
NMOCD Incident Number: nAPP2211060378  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA, Inc. (Oxy), has prepared the following Closure Request to document excavation and soil sampling activities completed to address impacted soil at the Federal 01 Battery (Site). Soil was impacted by a release of produced water onto the surface of the well pad, and flowed to the south off of the well pad. Based on the excavation activities and analytical results from the soil sampling events, Oxy is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number nAPP2211060378.

### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit K, Section 1, Township 22 South, Range 31 East, in Eddy County, New Mexico (32.419379° N, 103.733445° W) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On April 18, 2022, an equipment failure caused a water tank to overflow resulting in the release of approximately 35 barrels (bbls) of produced water. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 30 bbls of produced water were recovered. Oxy reported the release to the NMOCD on April 20, 2022 and submitted Form C-141 on April 29, 2022. The release was assigned Incident Number nAPP2211060378.

### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is estimated to be greater than 50 feet below ground surface (bgs) and less than 100 feet bgs based on the nearest groundwater well data. In a report dated April 15, 2019, GHD Services Inc. (GHD) installed multiple soil borings in order to determine groundwater depth for EOG Resources (EOG) at the Livingston Ridge #2 SWD Water Line Site. Soil boring SB-5, located 786

feet southwest of the Site, was drilled down to a depth of 130 feet bgs and soil boring SB-6, located 649 feet southwest of the Site, was drilled down to a depth of 96.5 feet bgs. Groundwater was not encountered during the advancement of SB-5 or SB-6. The referenced well records are included in **Appendix A**.

The closest continuously flowing or significant watercourse to the Site is a stream approximately 3,005 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology but is located within a low karst potential designation area. A Closure Criteria Map is included on **Figure 4**.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- Total TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of soil in the vegetative zone in the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be immediately reclaimed following remediation.

## SITE ASSESSMENT AND SAMPLING ACTIVITIES

Between July 1, 2024 and August 26, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. A total of 9 delineation soil samples (SS10 through SS18) were collected around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release, and 18 soil samples were collected from 9 locations (SS01 through SS09) at depths ranging from 0.5 to 4 feet bgs to further delineate the lateral vertical extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit. Photographic documentation was completed during the site visit and a photographic log is included in **Appendix B**.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following SM4500Cl-B.

Laboratory analytical results for delineation soil sample SS02 (0.5 ft bgs) and SS14 (0.5 ft bgs), collected within the release extent, indicated that TPH and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for the assessment soil samples SS01, SS02 (4 ft bgs), SS03 through SS09, collected within the release extent at depths ranging from 0.5 to 4 ft bgs and the

delineation soil samples (SS09 through SS13, and SS15 through SS18) collected from around the release extent at a depth of 0.5 ft bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the strictest Table 1 Closure Criteria, and confirmed the lateral and vertical extent of the release. Laboratory analytical results are summarized on **Table 1** (Vegetative Zone) and **Table 2** (Non-Vegetative Zone). Complete laboratory analytical reports are included in Appendix C. Based on the laboratory analytical results; additional remediation activities were warranted.

## EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

From August 26, 2024 through October 3, 2024, Ensolum personnel returned to the Site to collect composite confirmation samples as well as oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining and laboratory analytical results for the assessment and delineation soil samples. Excavation activities were performed using a backhoe and transport vehicle as well as a hydrovac. To direct excavation activities, soil was screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavations were completed in the area of soil sample SS02 to a depth of 4 feet bgs, the area of soil sample SS14 to a depth of 0.5 feet bgs, and in the area of soil samples SS27 and SS35 to a depth of 2 feet bgs. Photographic documentation of the excavation activities is included in **Appendix B**.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the floor of the excavation or from within the release extent, and every 200 square feet from the sidewalls of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (SS19 through SS97) were collected from within the release extent from a depth of 0.5 feet bgs. Composite floor soil samples SS27 and SS35 were collected from the floor of the excavation at a depth of 2 feet bgs, and composite soil sample SS03 was collected from the floor of the excavation at a depth of 4 feet bgs. The sidewall soil samples were collected, handled, and analyzed following the same procedures as described above. Composite sidewall soil samples SW01 through SW04 were collected from the sidewall of the excavation from depths ranging from 0 feet bgs to 2 feet bgs and/or from 0 feet bgs to 4 feet bgs. The excavation extent and excavation soil sample locations are presented on **Figure 3**.

The excavation area measured approximately 600 square feet. A total of approximately 60 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lealand Landfill in Carlsbad, New Mexico. After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Lea Land Caliche Pit and re-contoured to match pre-existing conditions. The Backfill Site Map is presented as **Figure 5**, laboratory analytical results for the backfill material are summarized on **Table 3** and complete laboratory analytical reports are included in **Appendix C**.

Laboratory analytical results for the final excavation samples SS19 through SS97, and final excavation sidewall samples SW01 through SW04 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required. The laboratory analytical results are summarized on **Table 1** (Vegetative Zone) and **Table 2** (Non-Vegetative Zone). The complete laboratory analytical reports are included in **Appendix C**.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 18, 2022 release of produced water. Laboratory analytical results for the soil samples, collected from the release extent and the final excavation extent, indicated benzene, BTEX, TPH, and chloride concentrations were

Oxy USA Inc.  
Closure Request  
Federal 01 Battery



compliant with applicable Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. Oxy has completed backfill of the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The off-pad areas will be seeded utilizing a weed-free seed mix designed by the BLM to meet the reclamation standard for this region. As such, Oxy respectfully requests closure for Incident Number nAPP2211060378.

If you have any questions or comments, please contact Mr. Beaux Jennings at (210) 219-8858 or bjennings@ensolum.com.

Sincerely,  
**Ensolum, LLC**

Georgiana McSwane  
Project Manager

Beaux Jennings  
Associate Principal

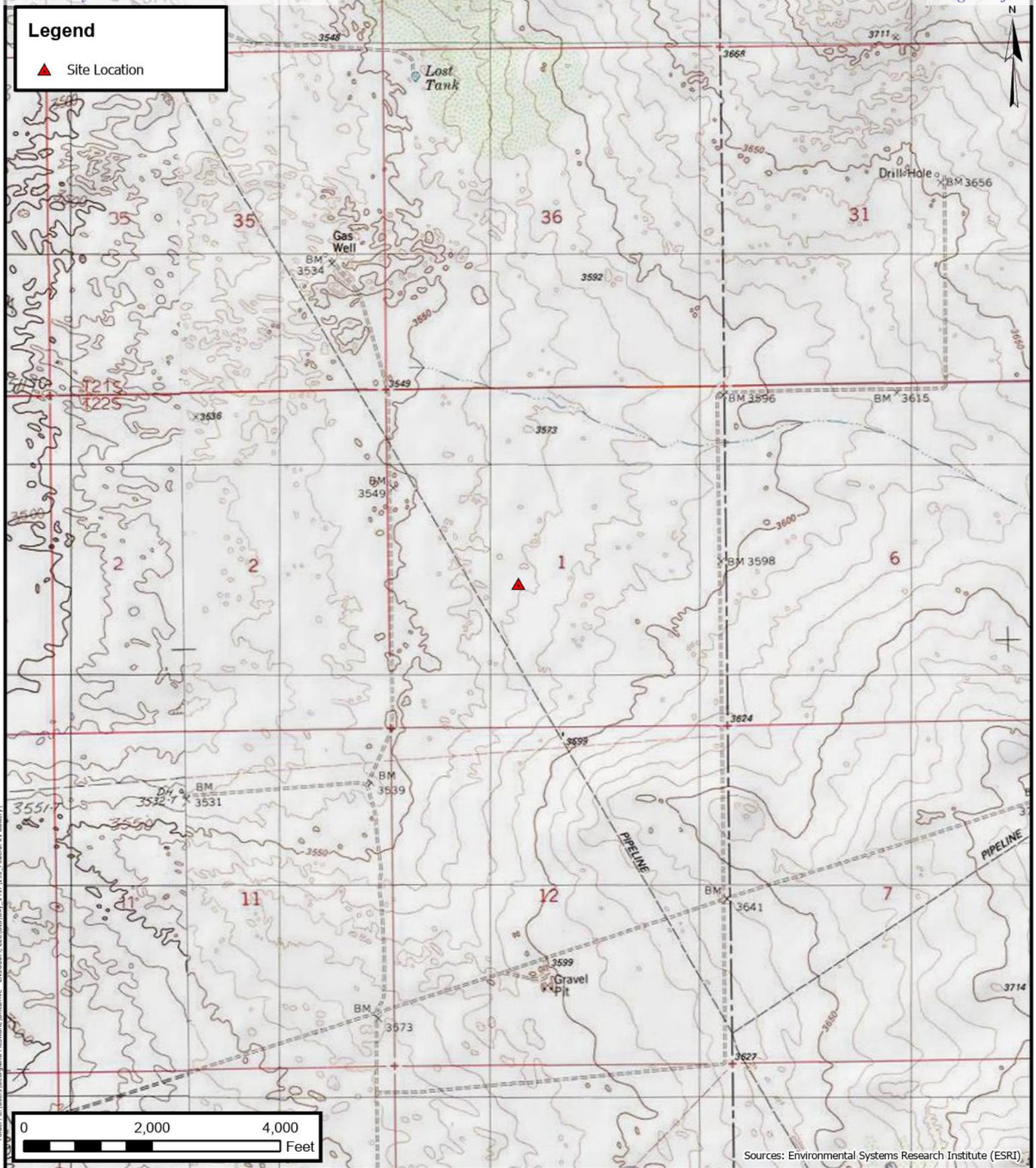
cc: Wade Dittrich, Oxy USA Inc.  
Tyson Pierce, Oxy USA Inc.  
Bureau of Land Management

Appendices:

Figures

- Figure 1 Topographic Map
- Figure 2 Site Vicinity Map
- Figure 3 Site Map
- Figure 4 Closure Criteria Map
- Figure 5 Backfill Site Map

- Table 1 Soil Sample Analytical Results (Vegetative Zone)
- Table 2 Soil Sample Analytical Results (Non-Vegetative Zone)
- Table 3 Backfill Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation



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**ENSOLUX**  
 Environmental, Engineering and  
 Hydrogeologic Consultants

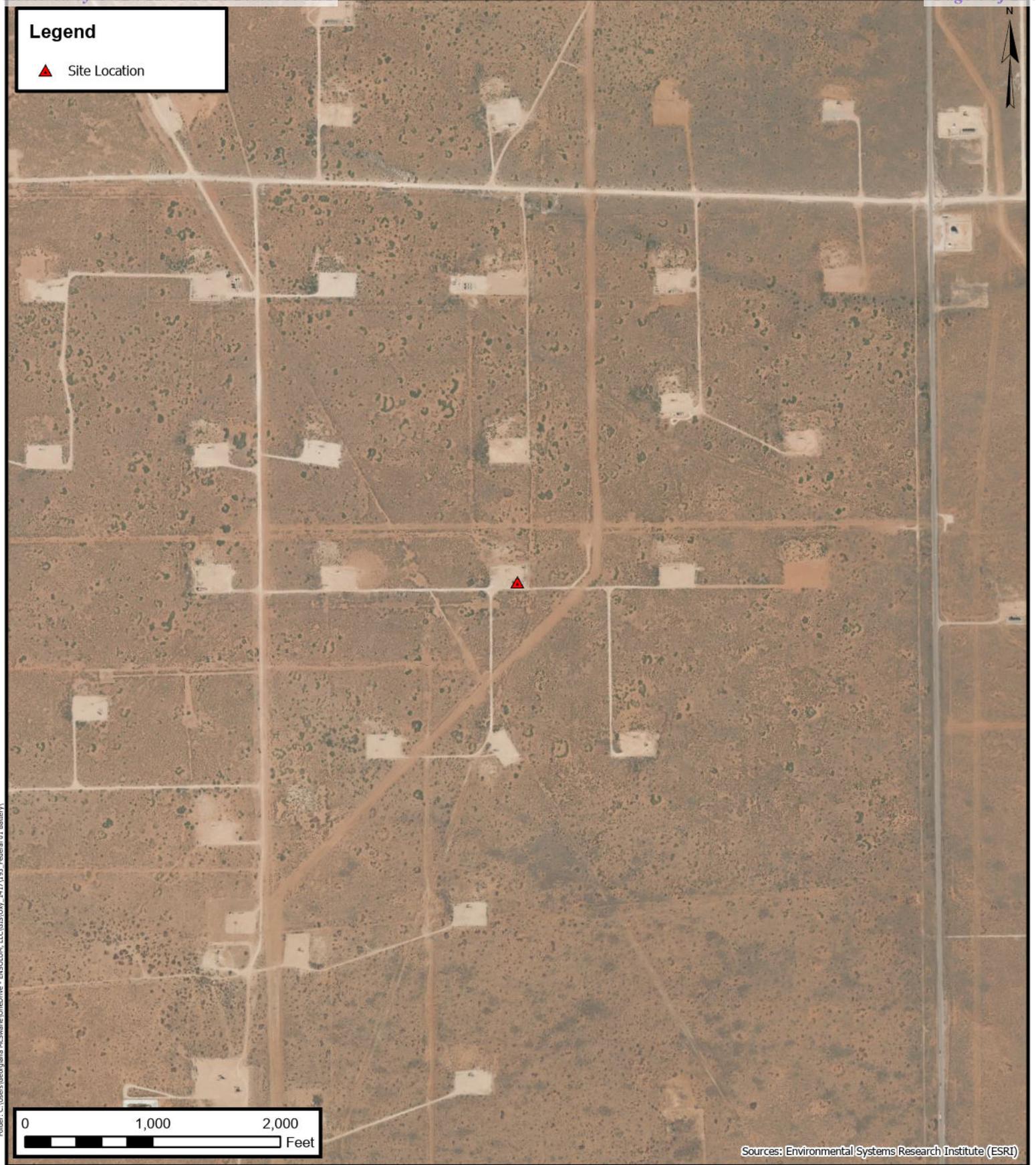
## Topographic Map

Oxy USA Inc.  
 Federal 01 Battery  
 32.419379° N, 103.733442° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417193

# FIGURE

# 1



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### Site Vicinity Map

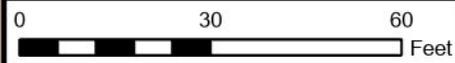
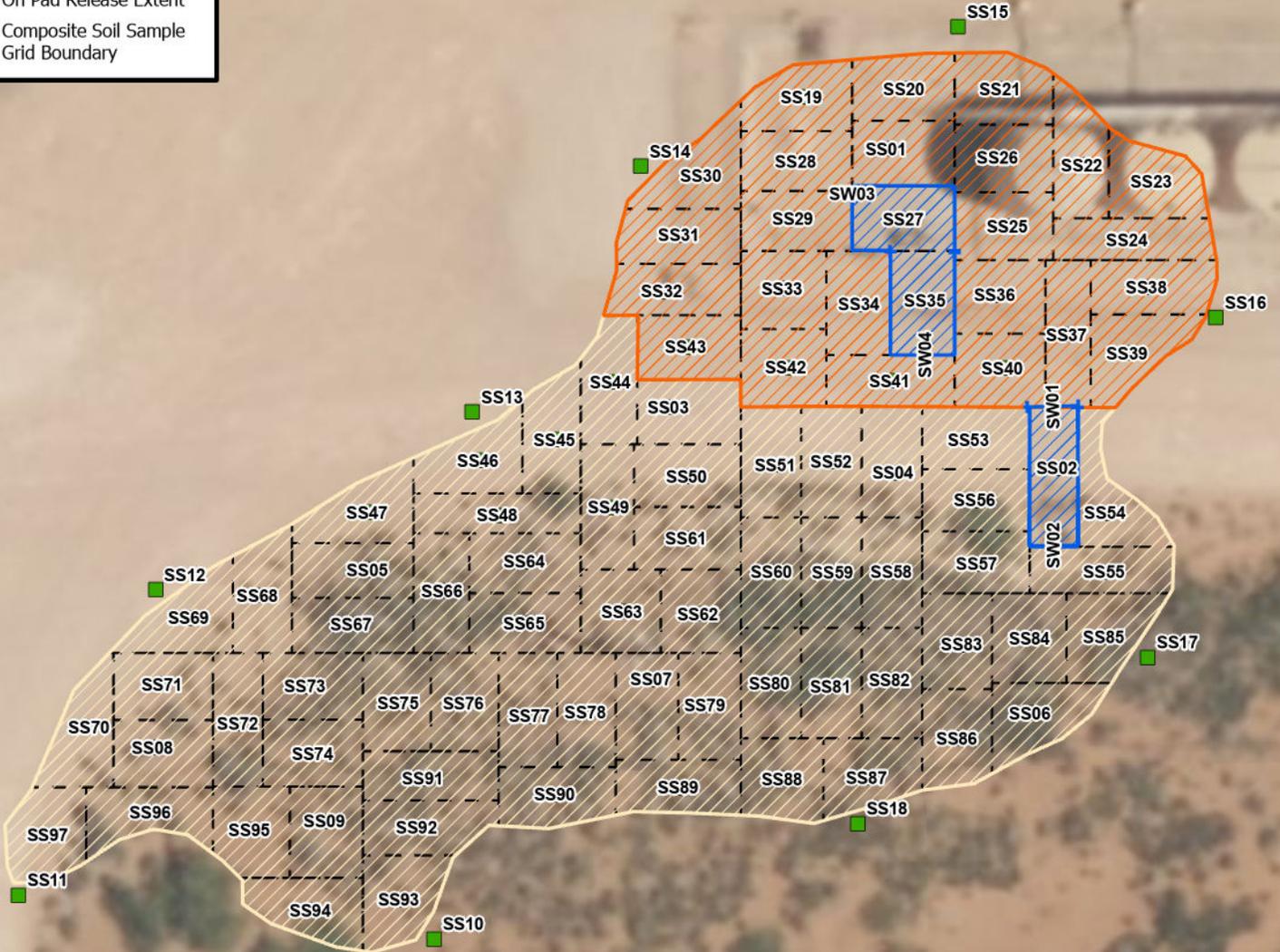
Oxy USA Inc.  
 Federal 01 Battery  
 32.419379° N, 103.733442° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417193

**FIGURE**  
**2**

### Legend

- Delineation Soil Sample Location
- ┌─┐ Composite Soil Sidewall Sample Location
- Excavation Extent selection
- Off Pad Release Extent
- On Pad Release Extent
- Composite Soil Sample Grid Boundary



Sources: Environmental Systems Research Institute (ESRI)



## Site Map

Oxy USA Inc.  
 Federal 01 Battery  
 32.419379° N, 103.733442° W  
 Eddy County, New Mexico

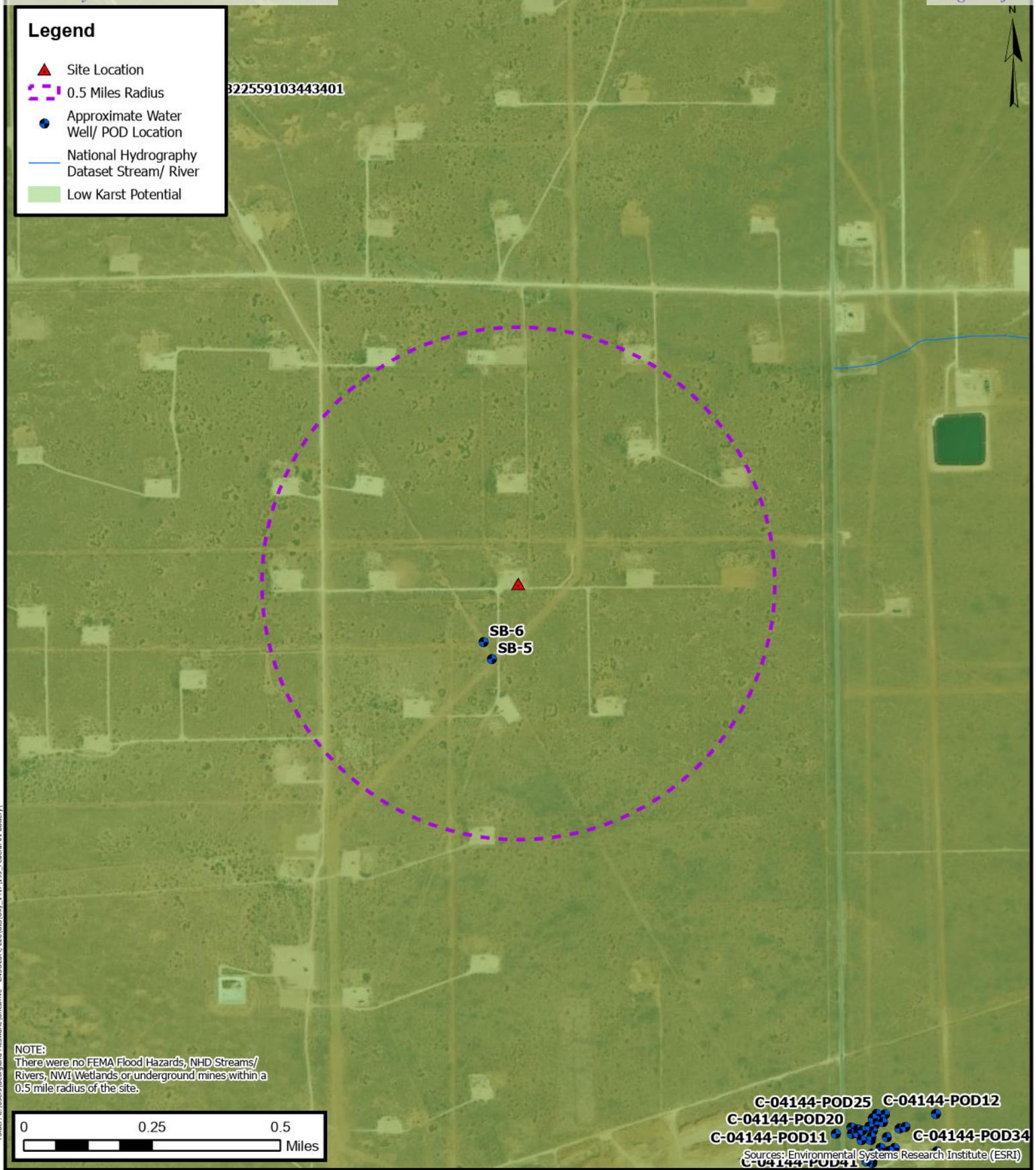
PROJECT NUMBER: 03B1417193

**FIGURE**  
**3**

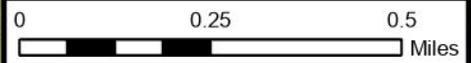
### Legend

- ▲ Site Location
- ⋯ 0.5 Miles Radius
- Approximate Water Well/ POD Location
- National Hydrography Dataset Stream/ River
- Low Karst Potential

322559103443401



**NOTE:**  
 There were no FEMA Flood Hazards, NHD Streams/Rivers, NWI Wetlands or underground mines within a 0.5 mile radius of the site.



C-04144-POD25 C-04144-POD12  
 C-04144-POD20  
 C-04144-POD11 C-04144-POD34  
 Sources: Environmental Systems Research Institute (ESRI)  
 C-04144-POD41



## Closure Criteria Map

Oxy USA Inc.  
 Federal 01 Battery  
 32.419379° N, 103.733442° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417193

### FIGURE

# 4

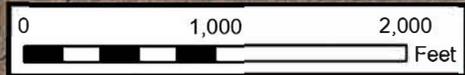
**Legend**

- Composite Sample Location



Sources: Environmental Systems Research Institute (ESRI)

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**Backfill Site Map**

Lea Land Caliche Pit  
 32.5232397° N, 103.7845410° W  
 Lea County, New Mexico

**FIGURE**  
**5**

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS (Vegetative Zone)**  
**Federal 01 Battery**  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417193

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>12</sub> (mg/kg)	TPH DRO >C <sub>12</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (&lt;50' bgs)</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>Delineation Soil Sample Analytical Results</b>												
SS10	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS11	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SS12	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS13	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS14	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>193</b>	<b>118</b>	<b>311</b>	<b>48.0</b>
	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>480</b>
SS15	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS16	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS17	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SS18	08/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
<b>Assessment Soil Sample Analytical Results</b>												
SS02	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>7,600</b>
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SS03	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>128</b>
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
SS04	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>96.0</b>
SS05	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS06	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS07	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS08	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SS09	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	08/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
<b>Confirmation Soil Sample Analytical Results</b>												
SS44	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS45	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
SS46	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS47	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS (Vegetative Zone)**  
**Federal 01 Battery**  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolium Project No. 03B1417193

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>12</sub> (mg/kg)	TPH DRO >C <sub>12</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (<50' bgs)			10	NE	NE	NE	50	NE	NE	NE	100	600
SS48	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS49	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS50	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS51	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS52	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS53	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS54	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS55	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS56	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS57	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS58	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS59	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS60	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS61	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS62	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS63	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS64	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS65	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS66	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS67	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS68	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS69	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS70	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SS71	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS72	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS73	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS74	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS75	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS76	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS77	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS78	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS79	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS80	09/12/2024	0.5	<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 (Vegetative Zone)**  
**Federal 01 Battery**  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417193

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>12</sub> (mg/kg)	TPH DRO >C <sub>12</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (&lt;50' bgs)</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>
SS81	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SS82	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS83	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS84	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS85	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS86	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS87	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS88	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SS89	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS90	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS91	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS92	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS93	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS94	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS95	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS96	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS97	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
<b>Excavation Sidewall Soil Sample Analytical Results</b>												
SW01	10/03/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>400</b>
SW02	10/03/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>

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

 represents samples that have been excavated and/or resampled

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbons

**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS (Non-Vegetative Zone)**  
**Federal 01 Battery**  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417193

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>12</sub> (mg/kg)	TPH DRO >C <sub>12</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH GRO+DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (50' - 100' bgs)			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
<b>Assessment Soil Sample Analytical Results</b>													
SS01	07/01/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84.6	38.8	84.6	123	1,780
	08/27/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
<b>Confirmation Soil Sample Analytical Results</b>													
SS19	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.5	<10.0	24.5	24.5	112
SS20	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	669	480	669	1,149	9,730
SS21	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS22	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
SS23	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	388	99.4	388	487	48.0
SS24	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS25	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.7	<10.0	13.7	13.7	4,500
SS26	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,090
SS27	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,500
	10/04/2024	2	NA										800
SS28	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS29	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,680
SS30	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
SS31	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS32	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS33	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,400
SS34	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,250
SS35	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,600
	10/04/2024	2	NA										1,220
SS36	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,760
SS37	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624
SS38	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS39	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS40	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS41	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS42	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS43	09/12/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS (Non-Vegetative Zone)**  
**Federal 01 Battery**  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417193

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>12</sub> (mg/kg)	TPH DRO >C <sub>12</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH GRO+DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (50' - 100' bgs)			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
<b>Excavation Sidewall Soil Sample Analytical Results</b>													
SW03	10/04/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,380</b>
SW04	10/04/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,180</b>

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

 represents samples that have been excavated and/or resampled

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Analyzed

NE: Not Established

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbons



**TABLE 3**  
**BACKFILL SOIL SAMPLE ANALYTICAL RESULTS**  
 Lea Land Caliche Pit  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolum Project No. NA

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)</b>			10	NE	NE	NE	50	NE	NE	NE	100	600
<b>Composite Background Soil Sample Analytical Result</b>												
Lea Land Caliche Pit	09/13/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.6	<10.0	98.6	560

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



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## APPENDIX A

### Referenced Well Records

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## STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: LIVINGSTON RIDGE SWD NO. 2  
 PROJECT NUMBER: 088210-35  
 CLIENT: EOG RESOURCES  
 LOCATION: EDDY COUNTY, NEW MEXICO

HOLE DESIGNATION: SB-5  
 DATE COMPLETED: August 18, 2017  
 DRILLING METHOD: HSA  
 FIELD PERSONNEL: S. PEREZ

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	Chloride (mg/kg)
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46	SEE SB-1 FOR STRATIGRAPHIC DETAILS							

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 088210-WI.GPJ CRA\_CORP.GDT 9/15/17



## STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: LIVINGSTON RIDGE SWD NO. 2  
 PROJECT NUMBER: 088210-35  
 CLIENT: EOG RESOURCES  
 LOCATION: EDDY COUNTY, NEW MEXICO

HOLE DESIGNATION: SB-5  
 DATE COMPLETED: August 18, 2017  
 DRILLING METHOD: HSA  
 FIELD PERSONNEL: S. PEREZ

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	Chloride (mg/kg)	
50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94									
	SC-CLAYEY SAND, with silt, coarse grained, poorly graded, brown, dry	90.00							

← BACKFILLED WITH BENTONITE CHIPS AND SOIL CUTTINGS

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 088210-WI-GPJ CRA\_CORP.GDT 9/15/17



## STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: LIVINGSTON RIDGE SWD NO. 2  
 PROJECT NUMBER: 088210-35  
 CLIENT: EOG RESOURCES  
 LOCATION: EDDY COUNTY, NEW MEXICO

HOLE DESIGNATION: SB-5  
 DATE COMPLETED: August 18, 2017  
 DRILLING METHOD: HSA  
 FIELD PERSONNEL: S. PEREZ

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	Chloride (mg/kg)
98								
100	SP-SAND, with silt, trace clay, coarse grained sandstone, poorly graded, brown, dry	100.00		SB-5-20				48
102								
104								
106								
108								
110				SB-5-25				760
112								
114								
116								
118								
120	- trace silt and clay at 120.0ft BGS			SB-5-30				82
122								
124								
126								
128								
130	END OF BOREHOLE @ 130.0ft BGS	130.00		SB-5-35				
132								
134								
136								
138								
140								
142								

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 088210-WI.GPJ CRA\_CORP.GDT 9/15/17



## STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: LIVINGSTON RIDGE SWD NO. 2  
 PROJECT NUMBER: 088210-35  
 CLIENT: EOG RESOURCES  
 LOCATION: EDDY COUNTY, NEW MEXICO

HOLE DESIGNATION: SB-6  
 DATE COMPLETED: August 16, 2017  
 DRILLING METHOD: HSA  
 FIELD PERSONNEL: S. PEREZ

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	Chloride (mg/kg)
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46	SEE SB-1 FOR STRATIGRAPHIC DETAILS							

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 088210-WI.GPJ CRA\_CORP.GDT 9/15/17





## STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: LIVINGSTON RIDGE SWD NO. 2  
 PROJECT NUMBER: 088210-35  
 CLIENT: EOG RESOURCES  
 LOCATION: EDDY COUNTY, NEW MEXICO

HOLE DESIGNATION: SB-6  
 DATE COMPLETED: August 16, 2017  
 DRILLING METHOD: HSA  
 FIELD PERSONNEL: S. PEREZ

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	Chloride (mg/kg)
98 100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142	END OF BOREHOLE @ 96.5ft BGS	96.50						

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 088210-WI.GPJ CRA\_CORP.GDT 9/15/17



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APPENDIX B

Photographic Log

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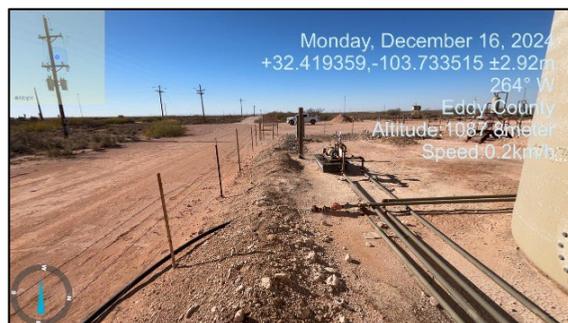


**Photographic Log**

Oxy USA, inc

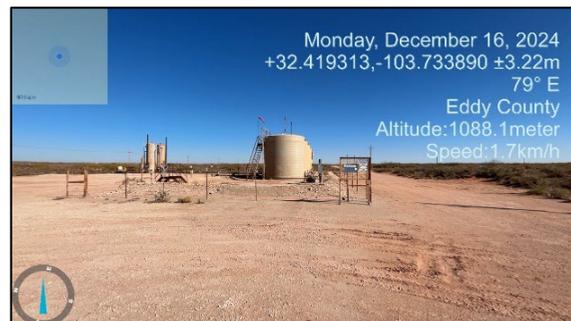
Federal 01 Battery

Incident Number: nAPP2211060378



Photograph: 9 Date: 12/16/2024  
Description: Backfill  
View: North

Photograph: 10 Date: 12/16/2024  
Description: Backfill  
View: West



Photograph: 11 Date: 12/16/2024  
Description: Backfill  
View: South

Photograph: 12 Date: 12/16/2024  
Description: Backfill  
View: East



## APPENDIX C

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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

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July 08, 2024

BEAUX JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: FEDERAL 01 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/01/24 14:09.

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS01 0.5 (H243932-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1780</b>	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	217	109	200	0.908	
<b>DRO &gt;C10-C28*</b>	<b>84.6</b>	10.0	07/04/2024	ND	215	108	200	0.0195	
<b>EXT DRO &gt;C28-C36</b>	<b>38.8</b>	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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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  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS02 0.5 (H243932-02)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>7600</b>	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2024	ND	217	109	200	0.908	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	215	108	200	0.0195	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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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  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS03 0.5 (H243932-03)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	217	109	200	0.908	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS04 0.5 (H243932-04)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	217	109	200	0.908	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS05 0.5 (H243932-05)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	217	109	200	0.908	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS06 0.5 (H243932-06)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	217	109	200	0.908	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS07 0.5 (H243932-07)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	217	109	200	0.908	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS08 0.5 (H243932-08)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEAUX JENNINGS  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SS09 0.5 (H243932-09)**

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	07/04/2024	ND	1.91	95.5	2.00	0.998	
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**Company Name:** Ensolum, LLC  
**Project Manager:** Beau Jennings  
**Address:** 601 N. Marlenfeld St. STE 400  
**City:** Midland **State:** TX **Zip:** 79701  
**Phone #:** (210)219-8858 **Email:** bjennings@ensolum.com  
**Project #:** 033141793 **Project Owner:**  
**Project Name:** Faldra 01 Battery  
**Project Location:**  
**Sampler Name:** Kaoru Shimada  
**FOR LAB USE ONLY**

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					BTEX 8021B	TPH 8015M	Chloride 4500
4249032	5501	0.5	C	1								7-12-24	1140				
	5502	1	C	1								7-12-24	1444				
	5503	1	C	1								7-12-24	1203				
	5504	1	C	1								7-12-24	1226				
	5505	1	C	1								7-12-24	1223				
	5506	1	C	1								7-12-24	1225				
	5507	1	C	1								7-12-24	1221				
	5508	1	C	1								7-12-24	1221				

**Relinquished By:** Kaoru Shimada  
**Received By:** [Signature]  
**Date:** 7-1-24  
**Time:** 1409  
**Remarks:** Paykey/AFFNONAFE:  
**Verbal Result:**  Yes  No  
**Additional Phone #:**  
**Turnaround Time:**  Rush  Standard  
**Thermometer ID:** 4449 **Correction Factor:** -0.5°C  
**Observed Temp. °C:** 5.1°C  
**Corrected Temp. °C:** 4.6°C  
**Sample Condition:**  Intact  Cool  Yes  No  
**Checked By:** [Signature] (Initials) AD  
**Delivered By:** (Circle One)  UPS  Bus  Other  
**FORUM-006 R.3.2 10/07/21**

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



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

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August 09, 2024

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

RE: FEDERAL 01 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/05/24 12:15.

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/09/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 10 0.5' (H244677-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2024	ND	1.94	97.0	2.00	5.17	
Toluene*	<0.050	0.050	08/06/2024	ND	1.92	96.0	2.00	4.77	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.05	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	08/06/2024	ND	6.03	100	6.00	3.94	
Total BTEX	<0.300	0.300	08/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	231	115	200	0.911	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	219	110	200	0.0716	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/05/2024  
 Reported: 08/09/2024  
 Project Name: FEDERAL 01 BATTERY  
 Project Number: 03B1417193  
 Project Location: OXY 32.419379, -103.733445

Sampling Date: 08/05/2024  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 11 0.5' (H244677-02)**

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	08/06/2024	ND	1.94	97.0	2.00	5.17		
Toluene*	<0.050	0.050	08/06/2024	ND	1.92	96.0	2.00	4.77		
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.05	102	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/06/2024	ND	6.03	100	6.00	3.94		
Total BTEX	<0.300	0.300	08/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	231	115	200	0.911		
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	219	110	200	0.0716		
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND						

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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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: 08/05/2024  
 Reported: 08/09/2024  
 Project Name: FEDERAL 01 BATTERY  
 Project Number: 03B1417193  
 Project Location: OXY 32.419379, -103.733445

Sampling Date: 08/05/2024  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 12 0.5' (H244677-03)**

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	08/06/2024	ND	1.94	97.0	2.00	5.17		
Toluene*	<0.050	0.050	08/06/2024	ND	1.92	96.0	2.00	4.77		
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.05	102	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/06/2024	ND	6.03	100	6.00	3.94		
Total BTEX	<0.300	0.300	08/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	198	99.1	200	12.3		
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	199	99.4	200	14.6		
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND						

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/09/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 13 0.5' (H244677-04)**

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	08/06/2024	ND	1.94	97.0	2.00	5.17	
Toluene*	<0.050	0.050	08/06/2024	ND	1.92	96.0	2.00	4.77	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.05	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	08/06/2024	ND	6.03	100	6.00	3.94	
Total BTEX	<0.300	0.300	08/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	198	99.1	200	12.3	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	199	99.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/09/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 14 0.5' (H244677-05)**

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	08/06/2024	ND	1.94	97.0	2.00	5.17	
Toluene*	<0.050	0.050	08/06/2024	ND	1.92	96.0	2.00	4.77	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.05	102	2.00	4.16	
Total Xylenes*	<0.150	0.150	08/06/2024	ND	6.03	100	6.00	3.94	
Total BTEX	<0.300	0.300	08/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	198	99.1	200	12.3	
<b>DRO &gt;C10-C28*</b>	<b>193</b>	10.0	08/06/2024	ND	199	99.4	200	14.6	
<b>EXT DRO &gt;C28-C36</b>	<b>118</b>	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/05/2024  
 Reported: 08/09/2024  
 Project Name: FEDERAL 01 BATTERY  
 Project Number: 03B1417193  
 Project Location: OXY 32.419379, -103.733445

Sampling Date: 08/05/2024  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 15 0.5' (H244677-06)**

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	08/06/2024	ND	1.94	97.0	2.00	5.17		
Toluene*	<0.050	0.050	08/06/2024	ND	1.92	96.0	2.00	4.77		
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.05	102	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/06/2024	ND	6.03	100	6.00	3.94		
Total BTEX	<0.300	0.300	08/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	198	99.1	200	12.3		
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	199	99.4	200	14.6		
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND						

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/05/2024  
 Reported: 08/09/2024  
 Project Name: FEDERAL 01 BATTERY  
 Project Number: 03B1417193  
 Project Location: OXY 32.419379, -103.733445

Sampling Date: 08/05/2024  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 16 0.5' (H244677-07)**

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	08/06/2024	ND	2.11	106	2.00	0.115	QM-07
Toluene*	<0.050	0.050	08/06/2024	ND	2.22	111	2.00	0.443	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.36	118	2.00	0.0959	QM-07
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.03	117	6.00	0.411	QM-07
Total BTEX	<0.300	0.300	08/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	198	99.1	200	12.3	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	199	99.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/09/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 17 0.5' (H244677-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2024	ND	2.11	106	2.00	0.115	
Toluene*	<0.050	0.050	08/06/2024	ND	2.22	111	2.00	0.443	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.36	118	2.00	0.0959	
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.03	117	6.00	0.411	
Total BTEX	<0.300	0.300	08/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	198	99.1	200	12.3	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	199	99.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/05/2024  
 Reported: 08/09/2024  
 Project Name: FEDERAL 01 BATTERY  
 Project Number: 03B1417193  
 Project Location: OXY 32.419379, -103.733445

Sampling Date: 08/05/2024  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 18 0.5' (H244677-09)**

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	08/06/2024	ND	2.11	106	2.00	0.115	
Toluene*	<0.050	0.050	08/06/2024	ND	2.22	111	2.00	0.443	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.36	118	2.00	0.0959	
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.03	117	6.00	0.411	
Total BTEX	<0.300	0.300	08/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	198	99.1	200	12.3	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	199	99.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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August 30, 2024

GEORGIANA MCSWANE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: FEDERAL 01 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 9:30.

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 01 4' (H245189-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.95	97.5	2.00	3.63	
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634	
Total BTEX	<0.300	0.300	08/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	08/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 02 4' (H245189-02)**

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	08/28/2024	ND	1.95	97.5	2.00	3.63		
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634		
Total BTEX	<0.300	0.300	08/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 03 4' (H245189-03)**

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	08/28/2024	ND	1.95	97.5	2.00	3.63		
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634		
Total BTEX	<0.300	0.300	08/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 04 4' (H245189-04)**

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	08/28/2024	ND	1.95	97.5	2.00	3.63		
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634		
Total BTEX	<0.300	0.300	08/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	08/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 05 4' (H245189-05)**

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	08/28/2024	ND	1.95	97.5	2.00	3.63		
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634		
Total BTEX	<0.300	0.300	08/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 06 4' (H245189-06)**

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	08/28/2024	ND	1.95	97.5	2.00	3.63		
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634		
Total BTEX	<0.300	0.300	08/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 07 4' (H245189-07)**

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	08/28/2024	ND	1.95	97.5	2.00	3.63		
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634		
Total BTEX	<0.300	0.300	08/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 08 4' (H245189-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.95	97.5	2.00	3.63	
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634	
Total BTEX	<0.300	0.300	08/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 GEORGIANA MCSWANE  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: SS 09 4' (H245189-09)**

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	08/28/2024	ND	1.95	97.5	2.00	3.63		
Toluene*	<0.050	0.050	08/28/2024	ND	2.07	103	2.00	2.54		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.13	106	2.00	0.638		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.41	107	6.00	0.634		
Total BTEX	<0.300	0.300	08/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	208	104	200	0.791		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	200	99.9	200	0.208		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC P.O. #: \_\_\_\_\_  
 Project Manager: Beaux Jennings Georgiana McSwain Company: Oxy USA, Inc.  
 Address: 601 N. Marland St. STE 400 Attn: Wade Dittich Ryan Piere  
 City: Midland 54-459-2338 State: TX Zip: 79701 Address: \_\_\_\_\_  
 Phone #: 214-249-9968 Fax #: \_\_\_\_\_ City: \_\_\_\_\_  
 Project #: 03B1417193 Project Owner: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Name: Federal 01 Battery Phone #: 575-393-2928  
 Project Location: Eddy County Fax #: \_\_\_\_\_  
 Sample Name: Tapline Guadalupe

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021	TPH 8015	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H045189	SS01	4'	G	1	X							8/27/24	0815	X	X	X
	SS02	4'	G	1	X							8/28/24	1040	X	X	X
	SS03	4'	G	1	X							8/29/24	1000	X	X	X
	SS04	4'	G	1	X							8/29/24	1015	X	X	X
	SS05	4'	G	1	X							8/29/24	1318	X	X	X
	SS06	4'	G	1	X							8/29/24	1255	X	X	X
	SS07	4'	G	1	X							8/29/24	1305	X	X	X
	SS08	4'	G	1	X							8/29/24	1325	X	X	X
	SS09	4'	G	1	X							8/29/24	1335	X	X	X

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Relinquished By: \_\_\_\_\_ Date: 8/27/24 Received By: Shoddergundy  
 Time: 0930  
 Date: \_\_\_\_\_ Received By: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Delivered By: (Circle One) Observed Temp. °C: 3.8 Sample Condition: Intact Checked By: SR  
 Corrected Temp. °C: 3.2 Cool Intact: Yes Bacteria (only) Sample Condition: Intact  
 Sampler - UPS - Bus - Other:      No  No  No  No  
 Turnaround Time: Standard  Rush   
 Thermometer ID: #113 Bacteria (only) Sample Condition: Intact  
 Correction Factor: 0.01  0.01  No  No  No  No  
 All Results are emailed. Please provide Email address: B Jennings@ensolum.com and gmswane@ensolum.com  
 Add'l Phone #: \_\_\_\_\_  
 REMARKS: \* samples water logged from TDS  
cooling. Shoddergundy 8-27-24



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

---

September 18, 2024

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

RE: FEDERAL 01 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/13/24 9:26.

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 14 0.5' (H245567-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 19 0.5' (H245567-02)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>24.5</b>	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 20 0.5' (H245567-03)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9730</b>	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>669</b>	10.0	09/14/2024	ND	185	92.4	200	3.60	
<b>EXT DRO &gt;C28-C36</b>	<b>480</b>	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 21 0.5' (H245567-04)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 22 0.5' (H245567-05)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 23 0.5' (H245567-06)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>388</b>	10.0	09/14/2024	ND	185	92.4	200	3.60	
<b>EXT DRO &gt;C28-C36</b>	<b>99.4</b>	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 24 0.5' (H245567-07)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 25 0.5' (H245567-08)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4500</b>	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>13.7</b>	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 26 0.5' (H245567-09)**

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	09/16/2024	ND	1.88	94.1	2.00	7.39	
Toluene*	<0.050	0.050	09/16/2024	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.97	98.6	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.6	6.00	0.787	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 27 0.5' (H245567-10)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 28 0.5' (H245567-11)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 29 0.5' (H245567-12)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	09/16/2024	ND	400	100	400	3.92	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	181	90.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 30 0.5' (H245567-13)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 31 0.5' (H245567-14)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 32 0.5' (H245567-15)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 33 0.5' (H245567-16)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 34 0.5' (H245567-17)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 35 0.5' (H245567-18)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 36 0.5' (H245567-19)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 37 0.5' (H245567-20)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 38 0.5' (H245567-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 39 0.5' (H245567-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 40 0.5' (H245567-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 41 0.5' (H245567-24)**

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	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 42 0.5' (H245567-25)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 43 0.5' (H245567-26)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 44 0.5' (H245567-27)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 45 0.5' (H245567-28)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 46 0.5' (H245567-29)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.88	94.2	2.00	11.2	
Toluene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	8.49	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.06	103	2.00	6.57	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.40	107	6.00	5.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 47 0.5' (H245567-30)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 48 0.5' (H245567-31)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 49 0.5' (H245567-32)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94		
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	197	98.3	200	4.05		
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	185	92.7	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND						

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 50 0.5' (H245567-33)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 51 0.5' (H245567-34)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 52 0.5' (H245567-35)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 53 0.5' (H245567-36)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 54 0.5' (H245567-37)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 55 0.5' (H245567-38)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 56 0.5' (H245567-39)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 57 0.5' (H245567-40)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 58 0.5' (H245567-41)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 59 0.5' (H245567-42)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94		
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85		
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17		
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND						

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 60 0.5' (H245567-43)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94		
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85		
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17		
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 61 0.5' (H245567-44)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 62 0.5' (H245567-45)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94		
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85		
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17		
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 63 0.5' (H245567-46)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 64 0.5' (H245567-47)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 65 0.5' (H245567-48)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 66 0.5' (H245567-49)**

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	09/16/2024	ND	1.79	89.6	2.00	8.94	
Toluene*	<0.050	0.050	09/16/2024	ND	1.76	87.8	2.00	5.78	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.84	92.0	2.00	4.00	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.45	90.8	6.00	3.92	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 67 0.5' (H245567-50)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	QM-07
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	QM-07, QR-03
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 68 0.5' (H245567-51)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 69 0.5' (H245567-52)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	213	107	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	211	105	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 70 0.5' (H245567-53)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 71 0.5' (H245567-54)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 72 0.5' (H245567-55)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 73 0.5' (H245567-56)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 74 0.5' (H245567-57)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 75 0.5' (H245567-58)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 76 0.5' (H245567-59)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 77 0.5' (H245567-60)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 78 0.5' (H245567-61)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 79 0.5' (H245567-62)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 80 0.5' (H245567-63)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 81 0.5' (H245567-64)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 82 0.5' (H245567-65)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 83 0.5' (H245567-66)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 84 0.5' (H245567-67)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 85 0.5' (H245567-68)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 86 0.5' (H245567-69)**

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	09/16/2024	ND	1.96	98.1	2.00	9.42	
Toluene*	<0.050	0.050	09/16/2024	ND	2.12	106	2.00	6.20	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.37	118	2.00	4.90	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	7.20	120	6.00	5.45	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 87 0.5' (H245567-70)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 88 0.5' (H245567-71)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 89 0.5' (H245567-72)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/14/2024	ND	192	95.8	200	0.00679	
DRO >C10-C28*	<10.0	10.0	09/14/2024	ND	196	98.0	200	0.306	
EXT DRO >C28-C36	<10.0	10.0	09/14/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 90 0.5' (H245567-73)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 91 0.5' (H245567-74)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 92 0.5' (H245567-75)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 93 0.5' (H245567-76)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 94 0.5' (H245567-77)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 95 0.5' (H245567-78)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 96 0.5' (H245567-79)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/13/2024	Sampling Date:	09/12/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SS 97 0.5' (H245567-80)**

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	09/16/2024	ND	2.25	112	2.00	2.18	
Toluene*	<0.050	0.050	09/16/2024	ND	2.18	109	2.00	6.58	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	8.28	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.79	113	6.00	8.78	
Total BTEX	<0.300	0.300	09/16/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2024	ND	400	100	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	09/16/2024	ND	204	102	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	200	99.8	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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: *Georgan McSwain* *Gmswain@ensolum.com*

Address: 601 N. Merivale

City: *Midland*

Phone #: 354-459-7338

Project #: 03B1417193

Project Name: *Federal 01 battery*

Project Location: *Edra County, NM*

Sample Name: *Leak Nutsche*

FOR LAB USE ONLY

P.O. #:   
Company: *OXY*

Attn: *Tyson Pierce*

Address:   
City:   
State:   
Zip:   
Phone #:   
Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	BTEX 8001	TPH 8015	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
<i>12455107</i>	<i>SS14</i>	<i>0.5'</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1215</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS19</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1100</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS20</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1111</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS21</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1115</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS22</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1121</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS23</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1130</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS24</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1134</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS25</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1136</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS26</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1140</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	<i>SS27</i>		<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>9/12/24</i>	<i>1145</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							

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Relinquished By: *[Signature]*

Date: *9.13.24*  
Time: *9:00*  
Received By: *[Signature]*

Verbal Result:  Yes  No  Add'l Phone #:   
All Results are emailed. Please provide Email address:   
REMARKS:

Delivered By: (Circle One)

Observed Temp. °C: *18.2*  
Corrected Temp. °C: *0.712*

Sample Condition  
Cool Intact:  Yes  No  
Intact:  Yes  No

CHECKED BY: *[Signature]*

Turnaround Time: *ASAP 9.24*  
Standard: *Rush*  
Thermometer ID: *#113*  
Correction Factor: *-0.102*

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

2 of 8

Company Name: Ensolum, LLC  
 Project Manager: Georgiana McSwane  
 Address: 601 N. Maricopa St Ste 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 254-459-3338 Fax #:   
 Project #: 0381417193 Project Owner:   
 Project Name: Federal Oil Battery  
 Project Location: Elderly County, NM  
 Sampler Name: Test Number  
 P.O. #:   
 Company: OXY  
 Attn: Tyson Pierce  
 Address:   
 City:   
 State:   
 Zip:   
 Phone #:   
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.									
11	55 28	0.5'	C	1	X							9/12/24	1147	X	BTEX 8021	X	TPH 8015	X	Chloride 4500	X
12	55 29		C	1	X							9/12/24	1150	X						
13	55 30		C	1	X							9/12/24	1154	X						
14	55 31		C	1	X							9/12/24	1156	X						
15	55 32		C	1	X							9/12/24	1200	X						
16	55 33		C	1	X							9/12/24	1202	X						
17	55 34		C	1	X							9/12/24	1205	X						
18	55 35		C	1	X							9/12/24	1209	X						
19	55 36		C	1	X							9/12/24	1212	X						
20	55 37	0.5'	C	1	X							9/12/24	1217	X						

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Relinquished By: *[Signature]*  
 Date: 9/13/24  
 Time: 2:00  
 Received By: *[Signature]*  
 Date:   
 Time:   
 Relinquished By:   
 Date:   
 Time:   
 Received By:   
 Date:   
 Time:

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:  
 Observed Temp. °C: 1.3°C  
 Corrected Temp. °C: 0.7°C  
 Sample Condition: Cool Intact  
 Checked By: *[Signature]*  
 Turnaround Time: 9/13/24  
 Standard: *[Signature]*  
 Bacteria (only) Sample Condition: Cool Intact  
 Corrected Temp. °C:   
 Form: ODFR 3.2 (10/07/21)

Verbal Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address:  
 REMARKS:  
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com







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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

5 of 8

Company Name: Ensolum, LLC  
 Project Manager: *Georgiana McSwane* *Measurement & Essoline* *APG*  
 Address: *601 N. Merriwold St. Ste 400*  
 City: *Midland* State: *TX* Zip: *79701*  
 Phone #: *254-459-9339* Fax #: \_\_\_\_\_  
 Project #: *03B 1417 193* Project Owner: \_\_\_\_\_  
 Project Name: *Federal 01 Batters*  
 Project Location: *Eddy County NM*  
 Sampler Name: *Leal Nantz*

Company: *DRY*  
 Attn: *Tyson Pierce*  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX										DATE	TIME	ANALYSIS REQUEST	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	PRESERV.				SAMPLING
<i>H245107</i>																		
<i>U1</i>	<i>55 58</i>	<i>0.5'</i>	<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1308</i>	<i>BTEX 8021</i>	<i>X</i>
<i>U2</i>	<i>55 59</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1310</i>	<i>TPH 8015</i>	<i>X</i>
<i>U3</i>	<i>55 60</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1312</i>	<i>Chloride 4500</i>	<i>X</i>
<i>U4</i>	<i>55 61</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1314</i>		<i>X</i>
<i>U5</i>	<i>55 62</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1316</i>		<i>X</i>
<i>U6</i>	<i>55 63</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1319</i>		<i>X</i>
<i>U7</i>	<i>55 64</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1320</i>		<i>X</i>
<i>U8</i>	<i>55 65</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1323</i>		<i>X</i>
<i>U9</i>	<i>55 66</i>		<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1330</i>		<i>X</i>
<i>U10</i>	<i>55 67</i>	<i>0.5'</i>	<i>C</i>	<i>1</i>	<i>X</i>										<i>9/12/24</i>	<i>1332</i>		<i>X</i>

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Relinquished By: \_\_\_\_\_  
 Date: *9/13/24*  
 Time: *9:30*  
 Received By: *APG*  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Verbal Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_

Delivered By: (Circle One) \_\_\_\_\_  
 Observed Temp. °C: *13.0*  
 Corrected Temp. °C: *0.7*  
 Sample Condition:  Cool  Intact  
 Yes  No  
 CHECKED BY: (Initials) *AP*  
 Turnaround Time: *APG 13:34* Standard   
 Thermometer ID: *443 # 100* Rush   
 Correction Factor: *0.0*  
 Bacteria (only)  Cool  Intact  
 Yes  No  
 Sample Condition:  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

7 of 8

BILL TO

ANALYSIS REQUEST

Company Name: Ensolium, LLC  
 Project Manager: Georgia Mesera (mesera@ensolium.com)  
 Address: 601 W. Marland St. Ste 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 354-459-3338 Fax #:   
 Project #: 03B/1412193 Project Owner:   
 Project Name: Federal Oil Battery  
 Project Location: Eddy County, NM  
 Sampler Name: Leah Purze  
 P.O. #:   
 Company: Oxy  
 Attn: Tyson Pierce  
 Address:   
 City:   
 State: Zip:   
 Phone #:   
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			ICE / COOL	OTHER :	WFC	LR	9/10/24	
401	55 78	0.5'	C	1	X							9/10/24	1400	X	X	X			
402	55 79		C	1	X							9/10/24	1411	X	X	X			
403	55 80		C	1	X							9/10/24	1413	X	X	X			
404	55 81		C	1	X							9/10/24	1415	X	X	X			
405	55 82		C	1	X							9/10/24	1418	X	X	X			
406	55 83		C	1	X							9/10/24	1420	X	X	X			
407	55 84		C	1	X							9/10/24	1424	X	X	X			
408	55 85		C	1	X							9/10/24	1426	X	X	X			
409	55 86		C	1	X							9/10/24	1429	X	X	X			
410	55 87		C	1	X							9/10/24	1430	X	X	X			

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Relinquished By: [Signature] Date: 9/13/24 Received By: [Signature] Date: 9/13/24

Relinquished By: [Signature] Date: 9/13/24 Received By: [Signature] Date: 9/13/24

Delivered By: (Circle One) Observed Temp. °C: 13.1 Corrected Temp. °C: 0.7

Sample - UPS - Bus - Other: Corrected Temp. °C: 0.7

FORM 006 R 3.2 (10/07) t Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

8 of 8

Company Name: Ensolum, LLC  
 Project Manager: *Georgina McSwane* *gmcswane@ensolm.com*  
 Address: 601 N. Marinfeld St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 254-459-1338 Fax #:  
 Project #: 0581417193 Project Owner:  
 Project Name: Federal Oil Battery  
 Project Location: Eddy County, NM  
 Sampler Name: *Leah Norze*

P.O. #:  
 Company: *DKY*  
 Attn: *Tyssa Pierce*  
 Address:  
 City:  
 State: Zip:  
 Phone #:  
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
<i>HAF55107</i>		0.5'	C	1	X							9/12/24	1432	BTEX 808
			C	1	X							9/12/24	1433	TPH 8015
			C	1	X							9/12/24	1434	Chloride 4500
			C	1	X							9/12/24	1435	
			C	1	X							9/12/24	1436	
			C	1	X							9/12/24	1437	
			C	1	X							9/12/24	1438	
			C	1	X							9/12/24	1447	
			C	1	X							9/12/24	1448	

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Relinquished By: *[Signature]*  
 Date: *9/13/24*  
 Time: *9:20*

Received By: *[Signature]*  
 Date: *9/13/24*  
 Time: *9:20*

Verbal Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address:  
 REMARKS:

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:  
 Observed Temp. °C: *1.3°C*  
 Corrected Temp. °C: *0.7°C*  
 Sample Condition: Cool Intact  Yes  No  
 CHECKED BY: (Initials) *AB*  
 Turnaround Time: *9:13:24* Standard   
 Thermometer ID #443 *Rush*  
 Correction Factor *-0.0°C*  
 Bacteria (only) Cool Intact  Yes  No  
 Sample Condition Observed Temp. °C Corrected Temp. °C

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



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

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October 10, 2024

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

RE: FEDERAL 01 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/04/24 14:31.

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	10/04/2024	Sampling Date:	10/03/2024
Reported:	10/10/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SW 02 0-4' (H246062-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2024	ND	2.02	101	2.00	3.32	
Toluene*	<0.050	0.050	10/07/2024	ND	2.04	102	2.00	3.16	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.56	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.13	102	6.00	2.49	
Total BTEX	<0.300	0.300	10/07/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/08/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	189	94.5	200	0.336	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	184	92.1	200	0.0505	
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/04/2024  
 Reported: 10/10/2024  
 Project Name: FEDERAL 01 BATTERY  
 Project Number: 03B1417193  
 Project Location: OXY 32.419379, -103.733445

Sampling Date: 10/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 01 0-4' (H246062-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2024	ND	2.02	101	2.00	3.32	
Toluene*	<0.050	0.050	10/07/2024	ND	2.04	102	2.00	3.16	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.56	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.13	102	6.00	2.49	
Total BTEX	<0.300	0.300	10/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/08/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	189	94.5	200	0.336	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	184	92.1	200	0.0505	
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/04/2024  
 Reported: 10/10/2024  
 Project Name: FEDERAL 01 BATTERY  
 Project Number: 03B1417193  
 Project Location: OXY 32.419379, -103.733445

Sampling Date: 10/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 04 0-2' (H246062-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2024	ND	2.02	101	2.00	3.32		
Toluene*	<0.050	0.050	10/07/2024	ND	2.04	102	2.00	3.16		
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.56		
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.13	102	6.00	2.49		
Total BTEX	<0.300	0.300	10/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	10/08/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	189	94.5	200	0.336		
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	184	92.1	200	0.0505		
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND						

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
GEORGIANA MCSWANE  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 10/04/2024  
Reported: 10/10/2024  
Project Name: FEDERAL 01 BATTERY  
Project Number: 03B1417193  
Project Location: OXY 32.419379, -103.733445

Sampling Date: 10/04/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 35 2' (H246062-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1220</b>	16.0	10/07/2024	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 GEORGIANA MCSWANE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	10/04/2024	Sampling Date:	10/04/2024
Reported:	10/10/2024	Sampling Type:	Soil
Project Name:	FEDERAL 01 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03B1417193	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY 32.419379, -103.733445		

**Sample ID: SW 03 0-2' (H246062-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2024	ND	2.02	101	2.00	3.32		
Toluene*	<0.050	0.050	10/07/2024	ND	2.04	102	2.00	3.16		
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.56		
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.13	102	6.00	2.49		
Total BTEX	<0.300	0.300	10/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	10/07/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	188	94.2	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	160	80.2	200	15.4		
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
GEORGIANA MCSWANE  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 10/04/2024  
Reported: 10/10/2024  
Project Name: FEDERAL 01 BATTERY  
Project Number: 03B1417193  
Project Location: OXY 32.419379, -103.733445

Sampling Date: 10/04/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 27 2' (H246062-06)**

**Chloride, SM4500Cl-B**

**mg/kg**

**Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>800</b>	16.0	10/07/2024	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
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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\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: ~~Beetz-Farrington~~ Georgiana Heskimo  
 Project Manager: Georgiana Heskimo  
 Address: 601 N Marlenfeld Street, Suite 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-219-9966 Fax #: \_\_\_\_\_  
 Project #: 03B147195 Project Owner: \_\_\_\_\_  
 Project Name: Federal Oil Battery  
 Project Location: 52.419379, -103.755445  
 Sampler Name: Koorn Shimada  
 FOR LAB USE ONLY

P.O. #: \_\_\_\_\_  
 Company: Oxy USA Inc.  
 Attn: Wade Branch 13501 10/10  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: 425-390-2828  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.		# CONTAINERS	MATRIX							PRESERV	DATE	TIME	ANALYSIS
			GROUNDWATER	WASTEWATER		SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :				
<u>1</u>	<u>SW02</u>	<u>0-4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>10-3-24</u>	<u>1159</u>	<u>BTEX 8021B</u>						
<u>2</u>	<u>SW01</u>	<u>0-4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>10-3-24</u>	<u>1352</u>	<u>TPH 8015M</u>						
<u>3</u>	<u>SW04</u>	<u>0-2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>10-4-24</u>	<u>934</u>	<u>Chloride 4500</u>						
<u>4</u>	<u>SW03</u>	<u>0-2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>10-4-24</u>	<u>1303</u>							
<u>5</u>	<u>SW03</u>	<u>0-2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>10-4-24</u>	<u>1305</u>							

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Relinquished By: Koorn Shimada Date: 10-4-24 Received By: Georgiana Heskimo Date: 10-4-24  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Verbal Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: gmswmo@enselun.com, Myken@enselun.com  
 REMARKS: \_\_\_\_\_

Delivered By: (Circle One) UPS Observed Temp. °C: 5.10 Sample Condition: Intact CHECKED BY: SK  
 Corrected Temp. °C: 5.00 Cool Intact:  Yes  No  
 Turnaround Time: #140-000 Standard Rush Bacteria (only) Sample Condition:  Cool Intact  Observed Temp. °C: \_\_\_\_\_  
 Thermometer ID #113 Correction Factor: -0.5°C  Yes  No Corrected Temp. °C: \_\_\_\_\_

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



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

---

September 19, 2024

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

RE: LEA LAND CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 14:00.

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

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:	09/16/2024	Sampling Date:	09/13/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LEA LAND CALICHE PIT	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: LEA LAND CALICHE PIT 0.5' (H245619-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>560</b>	16.0	09/17/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	204	102	200	0.238	
<b>DRO &gt;C10-C28*</b>	<b>98.6</b>	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Beaux Jennings

P.O. #:

Address: 601 N. Marland St. STE 400

Company: OXY USA

City: Midland State: TX Zip: 79701

Attn: Wade Dittrich

Phone #: (210)219-8858 Email: bjennings@ensolum.com

Address:

Project #: 03B1417160 Project Owner:

City: State: Zip:

Project Name: Lea Land Caliche Pit.

Phone #: Email:

Project Location:

Sampler Name: Kaoru Shimada

FOR LAB USE ONLY

MATRIX

PRESERV.

SAMPLING

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500	Hold
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:						
H2451A9	Lea Land Caliche Pit	0.5	C	1	X						9-15-24	10:41	X	X	X	

FIELD NOTE: Lab ID and Sample ID must be marked on container or bag, and be linked to the amount paid by the client for the analysis.

All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 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 rendered by Cardinal, regardless of whether such claim is based upon any of the above stated provisions or otherwise.

Relinquished By: Kaoru Shimada

Relinquished By: Date: 9-16-24

Received By: Mowery

Relinquished By: Date: 9-16-24

Received By: Mowery

REMARKS: Paykey/AFFNONAFFE

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

Observed Temp. °C: 4.3

Corrected Temp. °C: 5.7

Sample Condition: Cool Jacket

Checked By: (Initials) J.E.

Thermometer ID: #1140

Standard:  Standard  Backup (only) Sample Condition

Correction Factor: -0.6 °C

Thermometer ID: #1140

Correction Factor: -0.6 °C

Thermometer ID: #1140

Correction Factor: -0.6 °C

FORM-006 R.3.2 10/07/21

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

QUESTIONS

Action 416011

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2211060378
Incident Name	NAPP2211060378 FEDERAL 1-1 BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2127059734] FEDERAL 01 BATTERY

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	FEDERAL 1-1 BATTERY
Date Release Discovered	04/18/2022
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Production Tank   Produced Water   Released: 35 BBL   Recovered: 30 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 416011

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/31/2024
--	---

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 416011

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**  
*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	12500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1149
GRO+DRO (EPA SW-846 Method 8015M)	669
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	07/01/2024
On what date will (or did) the final sampling or liner inspection occur	10/04/2024
On what date will (or was) the remediation complete(d)	10/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	600
What is the estimated volume (in cubic yards) that will be reclaimed	60
What is the estimated surface area (in square feet) that will be remediated	600
What is the estimated volume (in cubic yards) that will be remediated	60

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 416011

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/31/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 5

Action 416011

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 416011

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>391128</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>10/11/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>10</b>
What was the sampling surface area in square feet	<b>37500</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	600
What was the total volume (cubic yards) remediated	60
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	600
What was the total volume (in cubic yards) reclaimed	60
Summarize any additional remediation activities not included by answers (above)	NA

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/31/2024
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Sante Fe Main Office  
Phone: (505) 476-3441

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Action 416011

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 416011

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 416011
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
crystal.walker	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC.	1/3/2025
crystal.walker	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/3/2025
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	1/3/2025