

January 30, 2025

New Mexico Oil Conservation Division

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

Re: Closure Request

Sand Dunes 28 Fed #1 SWD Incident Number NAPP2218940420 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Closure Request* to document assessment, delineation, and soil sampling activities performed at the Sand Dunes 28 Fed #1 SWD (Site). The purpose of the Site assessment, delineation, and soil sampling activities conducted in accordance with an approved Remediation Work Plan (*Work Plan*), was to assess for the presence or absence of impacts to soil resulting from a crude oil and produced water release at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number NAPP2218940420.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 28, Township 23 South, Range 31 East, in Eddy County, New Mexico (32.273598°, -103.780617°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 5, 2022, equipment failure on an injection flowline resulted in the release of approximately 15 barrels (bbls) of produced water spilled outside of a lined containment. A vacuum truck was dispatched to the Site to recover 1 bbl of free-standing fluids. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on July 8, 2022. The release was assigned Incident Number NAPP2218940420.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Oxy USA Inc. Remediation Workplan Sand Dunes 28 Fed #1 SWD

LINER INSPECTION ACTIVITIES

On June 24, 2024, Ensolum arrived onsite to conduct a site assessment and liner inspection. Ensolum did not see any abnormalities or faults with the liner.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between June 24, 2024 and July 30, 2024, Ensolum personnel conducted Site delineation activities to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven boreholes (PH01 through PH07) were advanced via backhoe within the release extent to assess for the presence or absence of impacted soil. The delineation boreholes were advanced to depths ranging from 0.5 feet to 4 feet bgs. In addition, six delineation soil samples (SS01 through SS04, DS01 and DS02) were collected around the release area, at depths ranging from 0.25 feet to 0.5 feet bgs to confirm the lateral extent of the release. Discrete soil samples were collected from each delineation pothole at depths ranging from 0.5 ft to 4 ft bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visit and a photographic log is included as **Appendix B**.

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

CONFIRMATION SOIL SAMPLING AND EXCAVATION ACTIVITIES

Between October 7, 2024 and November 5, 2024, Ensolum personnel returned to the Site to complete confirmation soil sampling of the release extent. Twenty soil samples (CS01 through CS20) were collected every 200 square feet at a depth of 0.25 feet bgs to confirm compliance with the reclamation requirements. Additionally, four hydrovac excavations were completed in the areas indicative of limits outside the reclamation requirements. These areas were resampled and renamed FS01 through FS07 respectively. Six soil samples (SW01 through SW06) were collected along the sidewalls of the hydrovac excavations every 200 square feet. The soil samples were field screened for VOCs and chloride. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 3**. Photographic documentation was completed during the Site visit and a photographic log is included as **Appendix B**.

Laboratory analytical results for soil samples PH01 through PH07, CS01 through CS03, CS05 through CS07, CS09, CS10, CS13 through CS15, CS17 through CS20, FS01 through FS07, and SW01 through SW06 collected within the release area and soil samples SS01 through SS04, DS01, and DS02 collected around the release area indicated all COC concentrations were compliant with the reclamation requirement.

BACKFILLING

Subsequent to the results of the final confirmation soil sampling, the excavated area was backfilled with clean fill material and then contoured to the original surrounding grade. One composite soil sample (Lea Land Caliche Pit) was collected from the backfill material prior to use at the Site. Since the release area was on an active pad site, no reclamation or revegetation was required in that area at this time.

CLOSURE REQUEST



Oxy USA Inc. Remediation Workplan Sand Dunes 28 Fed #1 SWD

Site assessment and excavation activities were conducted at the Site to address the July 19, 2022 release of produced water and crude oil. Laboratory analytical results for the soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the 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. As such, Oxy respectfully requests closure for Incident Number NAPP2218940420.

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

Sincerely, **Ensolum**, **LLC**

Samantha MacKenzie Staff Geologist

Jamanthe Malkenere

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

BLM

Beaux Jennings Associate Principal

Appendices:

CC:

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

Table 2 Backfill Soil Sample Analytical Results

Appendix A Supporting Documentation

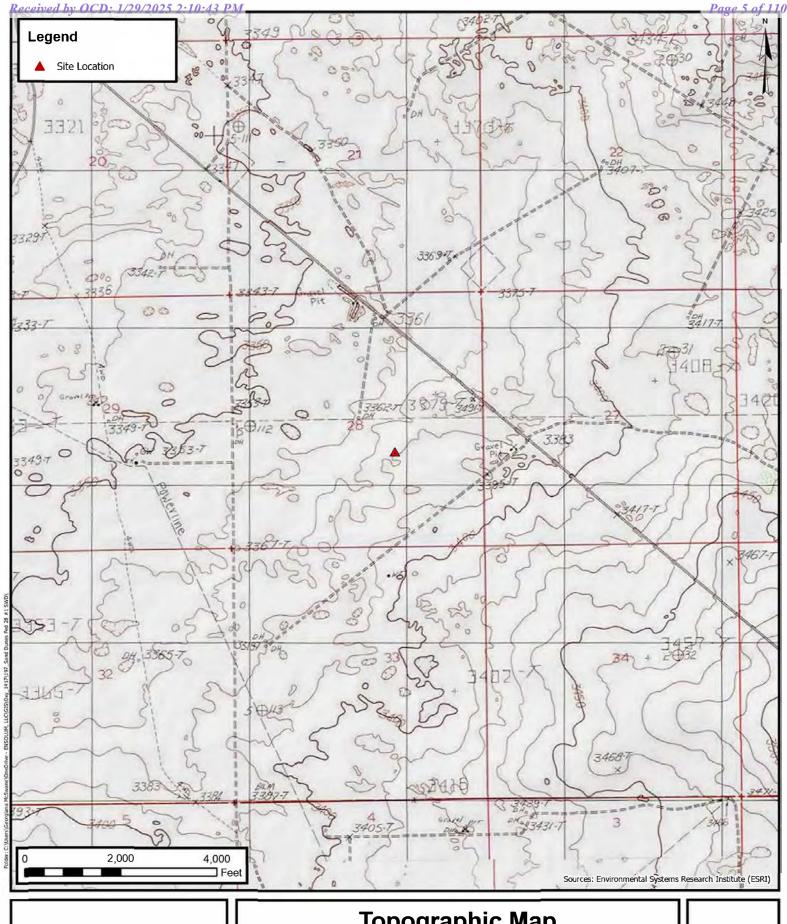
Appendix B Photographic Log

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





FIGURES





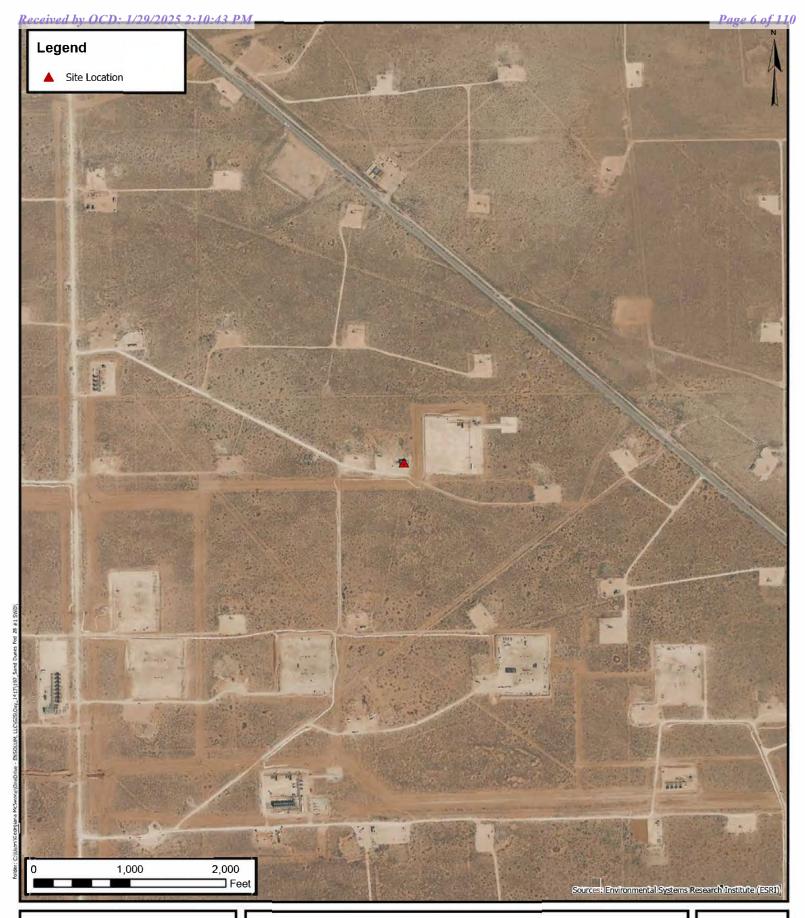
Topographic Map Oxy USA Inc.

Sand Dunes 28 Fed #1 SWD 32.273598° N, 103.780617° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

FIGURE

Released to Imaging: 1/30/2025 1:39:35 PM



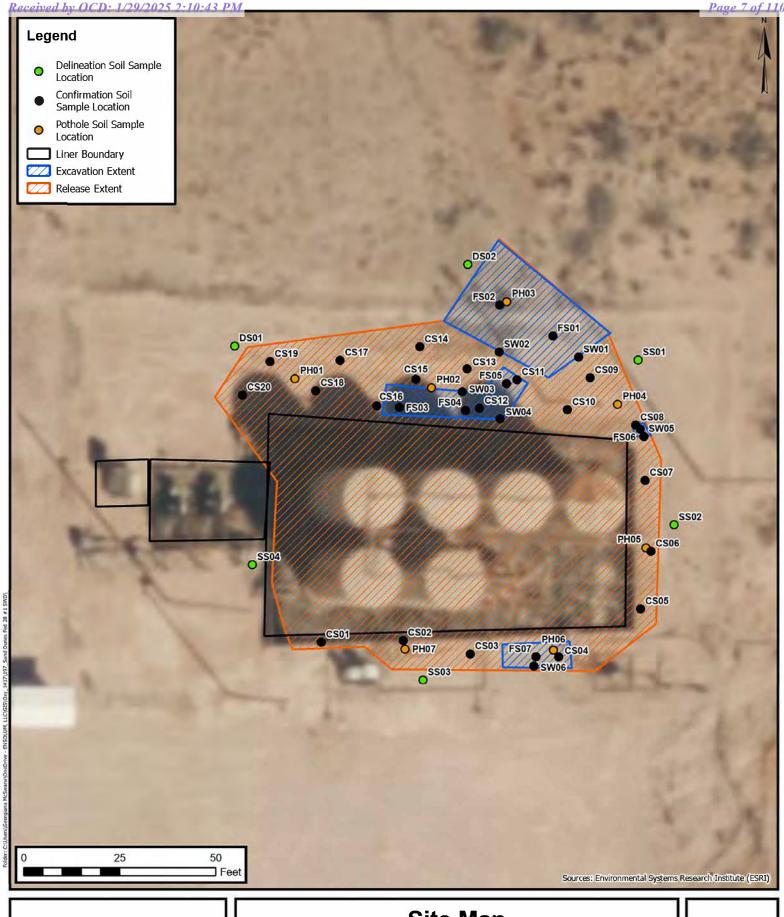


Site Vicinity Map

Sand Dunes 28 Fed #1 SWD 32.273598° N, 103.780617° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

FIGURE 2





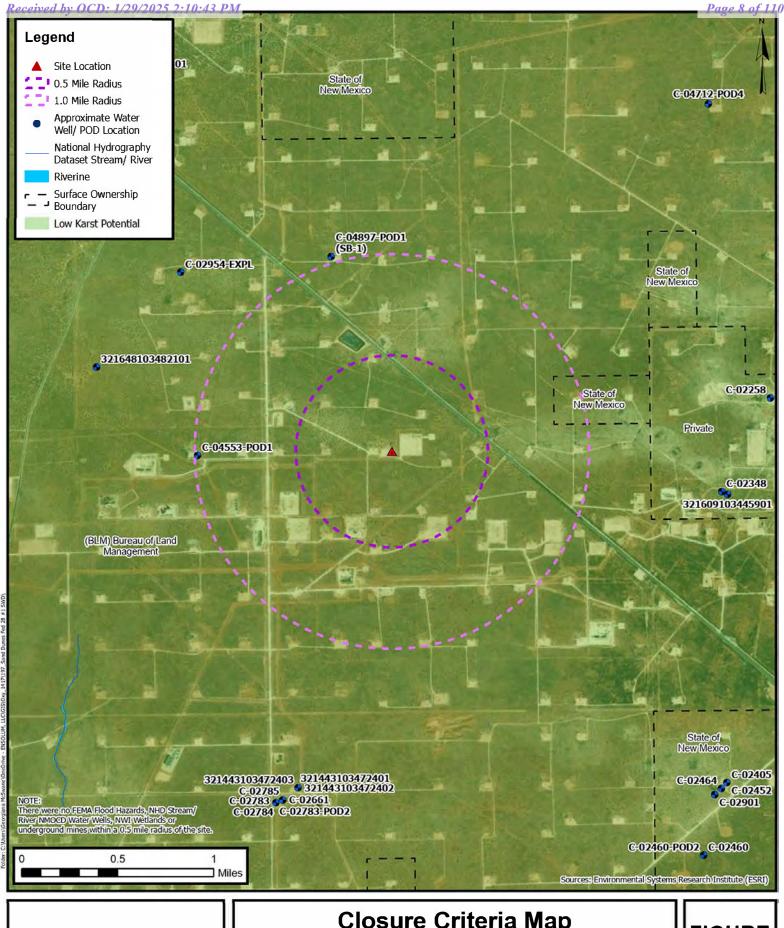
Site Map

Oxy USA Inc.
Sand Dunes 28 Fed #1 SWD
32.273598° N, 103.780617° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

FIGURE 3

Released to Imaging: 1/30/2025 1:39:35 PM



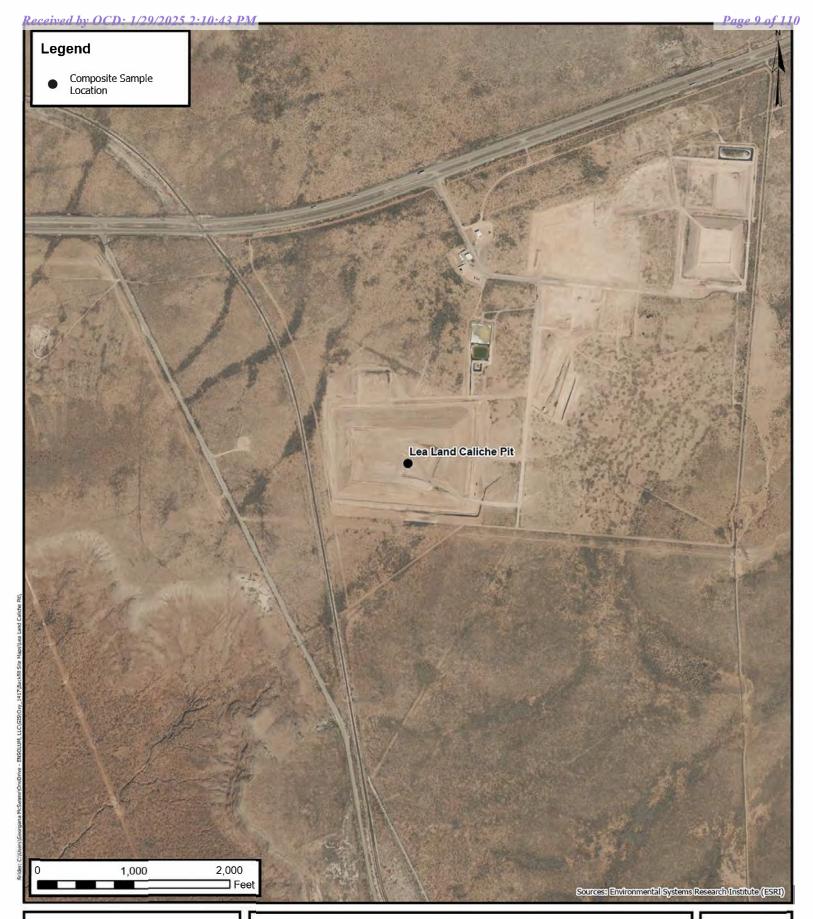


Closure Criteria Map

Oxy USA Inc. Sand Dunes 28 Fed #1 SWD 32.273598° N, 103.780617° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

FIGURE 4





Backfill Site Map

Lea Land Caliche Pit 32.5232397° N, 103.7845410° W Lea County, New Mexico FIGURE 5



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes 28 Fed #1 SWD Oxy USA Inc. Eddy County, New Mexico

						Project No. (
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₀ (mg/kg)	TPH DRO >C ₁₀ -C ₂₈ (mg/kg)	TPH ORO >C ₂₈ -C ₃₆ (mg/kg)	TPH GRO+DRO C ₆ -C ₂₈ (mg/kg)	TPH Total C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NMOC	D Table I Closure (NMAC 19.15.29)		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
					Po	othole Soil Sample	e Analytical Resu	ilts					
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960
PH01	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,620
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH02	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,840
PH03	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,500
	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	928
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH04	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH05	07/02/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,500
PH06	07/02/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH07	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
					Deli	neation Soil Sam	ole Analytical Res	sults					
SS01	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS02	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS03	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS04	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
DS01	11/05/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS02	11/05/2024	0.25	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

ENSOLUM

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes 28 Fed #1 SWD Oxy USA Inc. Eddy County, New Mexico

						Project No. (3B1417215								
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₀ (mg/kg)	TPH DRO >C ₁₀ -C ₂₈ (mg/kg)	TPH ORO >C ₂₈ -C ₃₆ (mg/kg)	TPH GRO+DRO C ₆ -C ₂₈ (mg/kg)	TPH Total C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)		
-	D Table I Closure (NMAC 19.15.29)		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000		
					Confi	irmation Soil Sam	ple Analytical Re	esults							
CS01															
CS02	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.7	17.3	17.7	35.0	3,600		
CS03	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.8	57.0	62.8	120	2,360		
CS04	10/07/2024	0.25	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	1,660	989	1,660	2,649	3,320		
CS05	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	251	147	251	398	4,560		
CS06	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	12.5	<10.0	12.5	5,600		
CS07	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	346	157	346	503	1,630		
CS08	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	5,170	2,240	5,170	7,410	1,840		
CS09	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.4	16.7	12.4	29.1	224		
CS10	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	47.3	34.6	47.3	81.9	3,080		
CS11	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,750	919	1,750	2,669	2,000		
CS12	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,790	1,590	3,790	5,380	3,200		
CS13	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	11.2	11.2	224		
CS14	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800		
CS15	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	153	70.6	153	224	6,960		
C\$16	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	6,080	2,280	6,080	8,360	5,200		
CS17	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112		
CS18	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0		
CS19	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256		
CS20	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	457	174	457	631	624		

ENSOLUM

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes 28 Fed #1 SWD Oxy USA Inc. Eddy County, New Mexico Project No. 03B1417215

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₀ (mg/kg)	TPH DRO >C ₁₀ -C ₂₈ (mg/kg)	TPH ORO >C ₂₈ -C ₃₆ (mg/kg)	TPH GRO+DRO C ₆ -C ₂₈ (mg/kg)	TPH Total C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NMOCI	D Table I Closure (NMAC 19.15.29)		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
					Exca	avation Soil Samp	ole Analytical Res	sults					
FS01	07/29/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	07/29/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS03	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	764	277	764	1,041	928
FS04	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	273	104	273	377	528
FS05	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.2	21.5	62.2	83.7	1,410
FS06	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.3	<10.0	24.3	24.3	96.0
FS07	11/05/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.9	<10.0	17.9	17.9	96.0
					Excavati	on Sidewall Soil S	Sample Analytica	l Results					
SW01	07/29/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW02	07/29/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
SW03	11/05/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW04	11/05/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW05	11/05/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW06	11/05/2024	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** and yellow exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

Concentrations filled in have been excavated

Page 13 of 110

ENSOLUM

TABLE 2 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS

Lea Land Caliche Pit Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. NA

Sample Designation	· I Date I		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)
	il Conservation D Soils Impacted b (≤ 50 feet)		10	NE	NE	NE	50	NE	NE	NE	100	600
				Co	omposite Backgro	ound Soil Samp	le Analytical Re	sult				
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



APPENDIX A

Referenced Well Records

From: <u>Dittrich, John W</u>

To: <u>Kelly Lowery</u>; <u>Hadlie Green</u>

Cc: <u>Samantha MacKenzie</u>; <u>Georgiana McSwane</u>; <u>Beaux Jennings</u>

Subject: Fw: The Oil Conservation Division (OCD) has approved the application, Application ID: 421827

Date: Thursday, January 23, 2025 2:23:09 PM

[**EXTERNAL EMAIL**]

Sand Dunes 28 Fed. 1 SWD--7/5/2022

Wade Dittrich

Environmental Advisor

New Mexico 575-390-2828

wade_dittrich@oxy.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Thursday, January 23, 2025 1:15 PM **To:** Dittrich, John W <wade dittrich@oxy.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application

ID: 421827

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

To whom it may concern (c/o Wade Dittrich for OXY USA INC), The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2218940420, with the following conditions:

• Remediation Plan and variance request approved.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Crystal Walker 505-584-2334

Crystal.Walker@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505



BOREHOLE LOG C-4553 POD 1

PROJECT NUMBER C-4553 POD 1 PROJECT NAME Soil Boring - DTG

CLIENT OXY USA, Inc

ADDRESS PO Box 4294, Houston TX 77210

LICENCE NO. WD-1035 Edd Coffey

DRILLING DATE 7/30/2021 TOTAL DEPTH 103 feet DIAMETER 8-3/4"

CASING uPVC

SCREEN uPVC Manually Slotted

COORDINATES 32.27335 N, -103.78742

COORD SYS WGS 84

COMPLETION Plugged and Abandoned SURFACE ELEVATION 3357 ft MSL

LOGGED BY John Farrell P.G. **COMMENTS** South of large mesquite bush - west side of pad

CHECKED BY Dan Dunkelburg

		CHECKED BY	Jan Dunkelburg	
Graphic Log	Material Description	Plugging	Diagram	Elevation (ft)
	Sand, red, dry			5
	Caliche, white, dry		_10 Haliburton Hole Plug + 5 gal water/bag	10 15
	Claystone, silty, reddish orange, dry			20 25 30 35
				40 - 45 - 50
			–backfill	55
				70 - 75 - 80
		500 300 00 300 300 300 300 300 300 300 3		85
	Termination Depth at:103 feet			- 100

ENVIRONMENTAL WELL BH01 Env Well

PROJECT NUMBER NMOSE # C4553 Pod 1

PROJECT NAME Soil Boring

CLIENT OXY

ADDRESS P O Box 4294, Houston TX 77210

DRILLING DATE 07 LICENCE NO. L312-Nb4 **DRILLING COMPANY** ABC Drilling

DRILLER Mr M. Brown

DRILL RIG

DRILLING METHOD Augering Hollow Flight

TOTAL DEPTH 14
DIAMETER

COORDINATES 4581.8, 6021

COORD SYS

SURFACE ELEVATION 45.15

WELL TOC A=45.2; B=45.23; C=45.17

LOGGED BY JB CHECKED BY M. Smart

COMPLETION CASING uPVC SCREEN uPVC Factory Slotted

COMMENTS Near the corner of the main shed

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
-1 -2 -3567	AU	82	BH01_5-5.3 BH01_5.8-6 BH01_6.4-6.8	SS SS SS	Y	Σ				W	D D	Old pipework Petroleum Smell	- 45 - 44 - 43 - 42 - 41 - 40 - 39
8 		34	BH01_8-8.3 BH01_8.4-8.5	SS (SS)	Y				SILTY CLAY: Dry, Dense	D	D		_ _ 37 _ _
- 9 10 11			BH01_10-10.5	SS	Υ				SANDY GRAVEL: Dry, Dense	D	D		- 36 - - - 35
- 11 - 12 - 13								+ + + + + + + + + + + + + + + + + + + +	GRANITE: Highly weathered granite, Dry, Hard	D	Н		- 34 - 33 - 33 - 32
- 14 - - -									Termination Depth at:14 m				- 31

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Page 1 of 1

ENVIRONMENTAL BOREHOLE / TESTPIT TP04

PROJECT NUMBER Sample HGC
PROJECT NAME Sample Hydrogeo & Contam
CLIENT Redev Pty Ltd

CLIENT Nedevi ty Eta

ADDRESS 1 Hybiscus Blvd, Alderville

DRILLING DATE 13/08/2009 1:04:00 PM DRILLING COMPANY PGCI Drilling
DRILLER John McMullan
DRILLING METHOD Excavator
TOTAL DEPTH 4

COORDINATES 4520, 6356 COORD SYS

SURFACE ELEVATION
LOGGED BY Igor Krinitskiy

CHECKED BY

COMMENTS

Depth (m)	PID	Penetration Resistance	Samples			nscs	Material Description	Additional Observations
					717 717		TOPSOIL: PT Dark brown, moist. High Orgainc content., Saturated	
- 0.5 						SC	CLAYEY SAND: SC, pale greenish brown medium bedding thickness, laminated, fine to medium, poorly graded, subangular, flat and elongated clayey silty sand Calcareous little chert, some coal, moist, weak HCL reaction, weak cementation, widely fissured	iron oxide staining, no odour
- 1.5 - - - - - 2 - -	4000		TP04_2.5	Ŷ				
2.5 	4000						SANDSTONE: very dark brownish gray thickly crossbedded, bioturbated, flow banded, medium grained clayey quartz sandstone, Dry, very hard, very wide fracture spacing, moderately weathered, 60 deg	iron oxide staining, slight
- 3 -	4				+ +		(Primary) bedding angle GRANITE:	odour odour
- - - 3.5 - -					·		Termination Depth at:3.2 m	
- - 4 -								
- - 4.5 - -								
- - 5 - -								
_ _ 5.5 _ _								



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔯

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321648103482101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321648103482101 23S.31E.29.11333

Eddy County, New Mexico Latitude 32°16'48", Longitude 103°48'21" NAD27 Land-surface elevation 3,336 feet above NAVD88 The depth of the well is 220 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

Output formats

<u>Table of data</u>	
Tab-separated data	
Graph of data	
Reselect period	

Released to Imaging: 1/30/2025 1:39:55 PM

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1959-03-26		D	62610		3195.91	NGVD29	1	Z			Α
1959-03-26		D	62611		3197.57	NAVD88	1	Z			А
1959-03-26		D	72019	138.43			1	Z			Α
1972-09-20		D	62610		3194.44	NGVD29	Р	Z			А
1972-09-20		D	62611		3196.10	NAVD88	Р	Z			А
1972-09-20		D	72019	139.90			Р	Z			А

Explanation

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

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
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Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2024-06-11 12:12:03 EDT

0.27 0.23 nadww01





APPENDIX B

Photographic Log



Photographic Log

Oxy USA, inc. Sand Dunes 28 Fed #1 SWD Incident Number: NAPP2218940420





Photograph: 1

Description: Liner Inspection

View: North

Date: 6/24/2024

Photograph: 2

Date: 6/24/2024

Description: Liner Inspection

View: Southeast





Photograph: 3

Date: 7/2/2024

Photograph: 4

Date: 7/2/2024

Description: Release Extent

View: East

Description: Potholing Activities

View: West



Photographic Log

Oxy USA, inc.
Sand Dunes 28 Fed #1 SWD
Incident Number: NAPP2218940420





Photograph: 5 Date: 7/29/2024

Description: Excavation Activites

View: West

Photograph: 6 Date: 10/7/2024

Description: Excavation Activites

View: Southeast





Photograph: 7 Date: 11/5/2024

Description: Excavation Activites

View: South

Photograph: 8 Date: 11/5/2024

Description: Excavation Activites

View: South



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



July 10, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/03/24 9:57.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



07/02/2024

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date:

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: EDDY COUNTY, NM

Sample ID: PH 01 0.5 (H244000-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	101	2.00	3.42	
Toluene*	<0.050	0.050	07/09/2024	ND	2.16	108	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.24	112	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.87	115	6.00	2.66	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling D

Reported: 07/10/2024
Project Name: SAND DUNES FED 28 #1 SWD

ma/ka

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 1 (H244000-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	QM-07, QR-03
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	QM-07, QR-03
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	QM-07, QR-03
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

ma/ka

Project Name: SAND DUNES F Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 2 (H244000-03)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	< 0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	< 0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: EDDY COUNTY, NM

ma/ka

Sample ID: PH 02 0.5 (H244000-04)

RTFY 8021R

Result <0.050	Reporting Limit	Analyzed	Method Blank	DC	0/ 5			
<0.050			ricaioa Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
<0.300	0.300	07/09/2024	ND					
102	% 71.5-13	4						
mg/kg		Analyzed By: CT						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
368	16.0	07/09/2024	ND	432	108	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
<10.0	10.0	07/09/2024	ND					
97.8	% 48.2-13	4						
99.5	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300 102 9 mg/ Result 368 mg/ Result <10.0 <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 102	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Celey & Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: EDDY COUNTY, NM

mg/kg

Sample ID: PH 02 1 (H244000-05)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NM

Sample ID: PH 02 2 (H244000-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024

Reported: 07/10/2024 Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 0.5 (H244000-07)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS %	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 1 (H244000-08)

Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Sampling Condition:

Sample Received By:

07/02/2024

Cool & Intact

Shalyn Rodriguez

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date:

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD
Project Number: 03B1417198

ma/ka

Project Location: EDDY COUNTY, NM

Sample ID: PH 03 2 (H244000-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Applyzod By: 14

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Sample Received By:

07/02/2024

Cool & Intact

Shalyn Rodriguez

Soil

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date:

Reported: 07/10/2024 Sampling Type:
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition:

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sample ID: PH 04 0.5 (H244000-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

mg/kg

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 2 (H244000-11)

BTEX 8021B

	<u> </u>	<u> </u>		. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03B1417198 Shalyn Rodriguez

Project Location: EDDY COUNTY, NM

Sample ID: PH 04 4 (H244000-12)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: PH 05 0.5 (H244000-13)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	71.5-13	4						
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	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: PH 05 3 (H244000-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

Project Name: Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: PH 05 4 (H244000-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

ma/ka

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 1 (H244000-16)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.7	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 3 (H244000-17)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 4 (H244000-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 07 0.5 (H244000-19)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: EDDY COUNTY, NM

mg/kg

Sample ID: PH 07 1 (H244000-20)

BTEX 8021B

	9/	9	7.1.4.7.2						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

mg/kg

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 07 4 (H244000-21)

Project Name:

BTEX 8021B

	9/	9	7.1.4.7.2						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	68.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.4	% 49.1-14	8						

Analyzed By: JH

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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.
Ç	PR-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.
Ç	M-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
N	ID	Analyte NOT DETECTED at or above the reporting limit
R	.PD	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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Celeg D. Freene

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

Observed Temp. Corrected Tem

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	: Ensolum, LLC			100	BILL TO			ANALYSIS DECLIEST
Project Manager:	: Hodyp Green	S. C.		P.O. #:	-			NATION OF STREET
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	ite 400		120 /XO	USA, TAC	_		
City: Midland		State: TX	Zip: 79701	Attn: wade	NUDO PILHANCH			
Phone #:	32-597-8895	Fax #:		Address:				
Project #:	801414188	Project Owner		City:				
Project Name:	Sund Junes	# 82 100	#1 SWB	State:	Zip:			
Project Location:	, Eddy (MN /Home		Phone #			70	
Sampler Name:	NKD			Fax#:			-56	
FOR LAB USE ONLY			/W	MATRIX PRESERV.	/. SAMPLING	_	4	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	DIL SLUDGE DTHER : ACID/BASE: CE / COOL DTHER :	DATE TIME	BTEX	Chiowaes	
_	1946	5,0		× 1	3) wolch	3		
w	PHO	_	×	×	200 mg/g/	<>	\ \	
W	HOI	2	C = X	×.	しんりまりかし	X	\ \ \	
¢	SHO2	5,0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7/2/14 (015	X	× -	
W-	PHOZ		\ \ \ \	×:	7/2/24 1020	×	*	
6	7402	N	\ - -	×	_	X	<u></u>	
7	6463	8,0		×.	3	× ×	*	
8	6403	-		×.	1	X	\	
75	6049	2	O -	X	•	X,	X	
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Appen Leur	em.	Pets: 24 Time: 6757	Received By:	Radkiquer	Nerbal Result: All Results are	sult:	rbal Result:	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: h \$\text{VPEG} / \text{A} \ \Cu\text{EUCM} \ \frac{\text{NM}}{\text{NM}}
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								1011

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

Correction Factor 85°6 #140

Cool Intact

Fes. 1 Yes

No | No Sample Condition

> CHECKED BY: (Initials)

> > Turnaround Time:

Standard

Relinquished By:

Date: 10957

Received By:

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Received By:

verbal Result: ☐ Yes Ø No Add'l Phone #:
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REMARKS: SOUTH STATES OF THE S

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC	Ensolum, LLC													0	BILL TO		7	0						-	1		SISA IVNO	-	51	10	BEOLIEST	2	اق	31	-	ı				
Project Manager:	Hodise Green									70	P.O. #:	#	1					- 10					-	- 1	\dashv	_	1	48	17	10	Цŕ	18	1	15			1			г
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City: Midland		State: TX	Zic	79	Zip: 79701						P	7	3.25		5	5	0	0	5	TRAFFIC DIFFERENT										_										
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Sample Condition
Cool Intact
Ves 1 Yes
No 1 No

CHECKED BY:

Turnaround Time: run samples

Standard

7.83-24

Bacteria (only) Sample Condition
Cool Intact Observed Temp. '

Yes Yes
No Corrected Temp.

Corrected Temp. °C Observed Temp. °C

205

Page 25 of 26

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC		BILLTO	
Project Manager: Hadi'e Green		P.O. #:	ANALTSIS REQUEST
Address: 601 N Marienfeld Street, Suite 400		(Xx,) (X, th)	
City: Midland	State: TX Zip: 79701		
Phone #: 432-557- 8845	Fax #:	Address:	
Project #: 07 B 1417[98	Project Owner:	City:	
Project Name: That Dunes Fed	63 H87 P	State: Zip:	
Project Location: Eddy (Dunky	NW	#	
Sampler Name: NKD			90
FOR LAB USE ONLY	MATRIX	ESERV. SAMPLING	hSI
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	DATE TIME BY THE TIME TO THER: T	(htovog L
21 Pur7	X	7/2/24 6	
T.	13 24 13 24		
PLEASE NOTE: Lability and Damages. Cardinal's liability and eli- analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or conse- artiflates or successors arising out of or related to the performance	PLEASE NOTE; Lability and Damages. Cardinal's lability and client's exclusive remedy for any clarm arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatboover shall be deemed walked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall cardinal be liable for inclodental 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 the reunded by Cardinal, regardless or whether such claim is based upon any of the above stated to resource or interview.	tort shall be implied to the amount paid by the client for the coewed by Cardinal within 30 days after completion of the applicable so flust, or loss of profits incurred by client, its subsidiaries, asset upon any of the place stated to response or chinaviers.	
Relinquished By:	Time Received By: Times Received By:	Merbal Result: Yes All Results are emailed. N 9 188 EN SOLUTION REMARKS:	Verbal Result: □ Yes A No Add'I Phone #: All Results are emailed. Please provide Email address: MGNUN JE CUSDIUM (OM REMARKS:
Sampler - UPS - Bus - Other:	Sample Condition Corrected Tomp, *C Sample Condition Cool Intact Corrected Tomp, *C No No	CHECKED BY: Turnaround Time: (Initials) Thermometer ID #119 Correction Factor #5500	d Bacteria (only) S Cool Intact Cyes Yes
CAMPANA SPECIAL STATES	-	District No.	

Page 26 of 26



August 01, 2024

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/29/24 16:31.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 07/29/2024 Reported: 08/01/2024

SAND DUNES FED 28 #1 SWD

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 01 4 (H244505-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.92	96.0	2.00	6.92	
Toluene*	<0.050	0.050	07/30/2024	ND	2.02	101	2.00	6.41	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.10	105	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.46	108	6.00	5.87	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	189	94.5	200	3.63	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	178	88.9	200	7.58	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

Applyand By 14

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Celey D. Keene



Analytical Results For:

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

Received: 07/29/2024 Reported: 08/01/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 02 4 (H244505-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.92	96.0	2.00	6.92	
Toluene*	<0.050	0.050	07/30/2024	ND	2.02	101	2.00	6.41	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.10	105	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.46	108	6.00	5.87	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	204	102	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	195	97.3	200	0.823	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 07/29/2024 Reported: 08/01/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 01 0-4 (H244505-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.92	96.0	2.00	6.92	
Toluene*	<0.050	0.050	07/30/2024	ND	2.02	101	2.00	6.41	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.10	105	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.46	108	6.00	5.87	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	204	102	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	195	97.3	200	0.823	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

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

Received: 07/29/2024 Reported: 08/01/2024

08/01/2024 SAND DUNES FED 28 #1 SWD

03B1417198

Project Name: SAND DUNES FED 28 7

Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 02 0-4 (H244505-04)

Project Number:

RTFY 8021R

ng Limit Analyzed 50 07/30/2024 50 07/30/2024 50 07/30/2024 50 07/30/2024	Method Blank ND ND ND	BS 1.92 2.02 2.10	% Recovery 96.0 101 105	True Value QC 2.00 2.00	RPD 6.92 6.41	Qualifier
50 07/30/2024 50 07/30/2024 50 07/30/2024	ND ND	2.02	101	2.00		
50 07/30/2024 50 07/30/2024	ND				6.41	
50 07/30/2024		2.10	105			
• •	ND		103	2.00	6.15	
	ND	6.46	108	6.00	5.87	
00 07/30/2024	ND					
71.5-134						
Analyze	ed By: HM					
ng Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
.0 07/30/2024	ND	448	112	400	3.51	
Analyze	ed By: MS					
ng Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
.0 07/30/2024	ND	204	102	200	4.71	
.0 07/30/2024	ND	195	97.3	200	0.823	
.0 07/30/2024	ND					
48.2-134						
49.1-148						
	ng Limit Analyzed .0 07/30/2024 .0 07/30/2024 .0 07/30/2024 48.2-134	.0 07/30/2024 ND .0 07/30/2024 ND .0 07/30/2024 ND 48.2-134	ng Limit Analyzed Method Blank BS .0 07/30/2024 ND 204 .0 07/30/2024 ND 195 .0 07/30/2024 ND	ng Limit Analyzed Method Blank BS % Recovery .0 07/30/2024 ND 204 102 .0 07/30/2024 ND 195 97.3 .0 07/30/2024 ND	ng Limit Analyzed Method Blank BS % Recovery True Value QC .0 07/30/2024 ND 204 102 200 .0 07/30/2024 ND 195 97.3 200 .0 07/30/2024 ND .0 07/30/2024 ND .0 48.2-134	ng Limit Analyzed Method Blank BS % Recovery True Value QC RPD .0 07/30/2024 ND 204 102 200 4.71 .0 07/30/2024 ND 195 97.3 200 0.823 .0 07/30/2024 ND

Applyzod By: 14

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Celeg & Freene



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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Delivered By: (Circle One) Sampler - UPS - Bus - Other Relinquished By: (575) 393-2326 FAX (575) 393-2476 Company Name: Ensolum, LLC Sampler Name: Kaoru Shimada City: Midland Project Location: Project #: 1738141 7198 Phone #: (210)219-8858 roject Name: Address: 601 N. Marienfeld St. STE 400 Project Manager: Beaux Jennings Lab I.D. STAND JSD BYTH MARRA nquished By: an FORM-006 R 3.2 10/07/2 12/08/12 Sample I.D. MIMERIA 1000 2051 State: TX Zip: Observed Temp. "C Corrected Temp. "C Project Owner: Type: 0 S Sample Depth (feet) Date: 79.2 79701 103. Federa 4 Email:bjennings@ensolum.com 7 Received By: Received By: G)RAB OR (C)OMP 400 # CONTAINERS GROUNDWATER Sample Condition
Cool Intact

(D) Yes (1) Yes
(1) No (1) No WASTEWATER SOIL ケイン OIL SLUDGE OTHER State: Email: Phone #: City: Attn: Wade Dittrich Address: Company: OXY USA P.O. #: ACID/BASE: CHECKED BY: (Initials) BILL OTHER Zip: 70 DATE MA SAMPLING REMARKS: Paykey/AFE/NonAFE: 2/2 TIME 152 148 Cool Intact **BTEX 8021B TPH 8015M** × XX Chloride 4500 ANALYSIS 5 May O No O No REQUEST Kenzia Densolumkon card Temp. "C

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



October 11, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/07/24 13:15.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/07/2024 Reported: 10/11/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 01 0.25 (H246080-01)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d 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	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8320	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d 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	211	106	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	69.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 10/07/2024 Reported: 10/11/2024

SAND DUNES FED 28 #1 SWD

Project Name: SAND DUNES
Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 02 0.25 (H246080-02)

BTEX 8021B	mg/	kg	Analyze	d 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	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	211	106	200	1.34	
DRO >C10-C28*	17.7	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	17.3	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/07/2024 Reported: 10/11/2024

10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 03 0.25 (H246080-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d 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	211	106	200	1.34	
DRO >C10-C28*	62.8	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	57.0	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

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

Received: 10/07/2024 Reported: 10/11/2024

SAND DUNES FED 28 #1 SWD

Project Name: Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: CS 04 0.25 (H246080-04)

BTEX 8021B	mg/	kg	Analyze	d 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	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	211	106	200	1.34	
DRO >C10-C28*	1660	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	989	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Sample Received By:

10/07/2024

Cool & Intact

Alyssa Parras

Soil

Analytical Results For:

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

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type:
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition:

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 05 0.25 (H246080-05)

BTEX 8021B	mg/	'kg	Analyze	d 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	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	251	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	147	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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Celey & Keene



Sample Received By:

10/07/2024

Alyssa Parras

Analytical Results For:

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

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type: Soil
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 06 0.25 (H246080-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	12.5	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 10/07/2024 Sampling Date: 10/07/2024

Reported: 10/11/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 07 0.25 (H246080-07)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	346	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	157	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 10/07/2024 Reported: 10/11/2024

SAND DUNES FED 28 #1 SWD

Project Name: SAND DUNES
Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 08 0.25 (H246080-08)

BTEX 8021B Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	5170	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	2240	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	146	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

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

Received: 10/07/2024 Sampling Date: 10/07/2024

Reported: Sampling Type: Soil 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Project Number: 03B1417197 Sample Received By: Alyssa Parras

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 09 0.25 (H246080-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	12.4	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	16.7	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/07/2024 Reported:

10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: CS 10 0.25 (H246080-10)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	47.3	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	34.6	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/07/2024

Reported: 10/11/2024 Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS 11 0.25 (H246080-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d 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	211	106	200	1.34	
DRO >C10-C28*	1750	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	919	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/07/2024 Reported:

10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: CS 12 0.25 (H246080-12)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	211	106	200	1.34	
DRO >C10-C28*	3790	10.0	10/08/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	1590	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Sample Received By:

10/07/2024

Cool & Intact

Alyssa Parras

Soil

Analytical Results For:

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

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type:
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition:

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 13 0.25 (H246080-13)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	11.2	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/07/2024 Reported:

10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS 14 0.25 (H246080-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/08/2024	ND	400	100	400	11.3	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.3	% 49.1-14	8						

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Sampling Condition:

Sample Received By:

10/07/2024

Cool & Intact

Alyssa Parras

Analytical Results For:

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

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 15 0.25 (H246080-15)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	153	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	70.6	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Sample Received By:

10/07/2024

Alyssa Parras

Analytical Results For:

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

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type: Soil
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 16 0.25 (H246080-16)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	6080	50.0	10/09/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	2280	50.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	112 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	236	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/07/2024 Reported: 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 17 0.25 (H246080-17)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						
	, ,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~						

Applyzod By: 14

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Analytical Results For:

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

Received: 10/07/2024 Sampling Date: Reported: Sampling Type:

10/11/2024 SAND DUNES FED 28 #1 SWD Sampling Condition:

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM 10/07/2024

Soil

Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS 18 0.25 (H246080-18)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

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

Received: 10/07/2024 Reported: 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS 19 0.25 (H246080-19)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	105 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.49	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 10/07/2024 Reported:

10/11/2024 Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: CS 20 0.25 (H246080-20)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	457	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	174	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celeg D. Keene



Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. ND Analyte NOT DETECTED at or above the reporting limit RPD Relative Percent Difference Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Company Name:	1											
Project Manager:	Samantha MacKanzia	andia			BILL TO					ANALYSIS RE	REQUEST	
Address: 601	-	E 400			Own lies In	_						
City: Midland		State: TX	Zip: 79701	Attn: Wade	Wade Dittrich	_						
Phone #: 703-3	703-357-3545	Fax #:		0		_				_		
Project #: (73)3	7417197	Project Owner:	a	City:		_						
Project Name: 4	SAMO DIMES	Feat 28	#1 SW	State:	Zip:		_					
Project Location:				*	575-390-2828	_						
Sampler Name:	Kaoru Shimada	nada				-						_
FOR LAB USE ONLY			MATRIX		SAMPLING			00CI				
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER NASTEWATER SOIL	DIL SLUDGE DTHER: ACID/BASE: DE / COOL DTHER:	DATE	BTEX 8021B	TPH 8015M	Chloride 450	Hold			
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C	-0 s	ondition CHECKED BY: act (Initials)	11	d Time:	1	Standard Rush		Bacteria (only) S	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C	
		Solitacina lamb. C3 87	No No No	No.	Correction Factor -05°C	erio ±	13	10		□Yes □ Yes		

Page 23 of 24

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:	Ensolum, LLC				BILL	07.1		1	1	1	ANA	ANAI VSIS DE	Olicet	
Project Manager:	: Samantha MacKenzie	enzie			P.O. #:		1	1	1	7			7000	1
Address: 601	601 N. Marienfeld St. STE 400	400			Company: Oxy USA, Inc.	xy USA, Inc.	_							
City: Midland		State: TX	Zip:	79701	Attn: Wade Dittrich	Dittrich	_							
Phone #: 703-3	703-357-3545	Fax #:			Address:									
Project #: 631	71414198	Project Owner:			City:									
Project Name: Sing	and Dungs	Fred 28	#	Ship		Zip:								
Project Location:	1				Phone #: 57	575-390-2828								
Sampler Name:	Kaoru Shimada	nada			Fax #:									
FOR LAB USE ONLY			ИP.	MATRIX	PRESERV.	SAMPLING	3		00CI					
Lab I.D. Haywajo	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BTEX 8021B	TPH 8015M	Chloride 450	Hold				
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analyses. All claims including thos service. In no event shall Cardinal affiliates or successors arising out o	ages e for r be lial	ient's exclusive remedy for an cause whetsoever shall be do equental damages, including or of services hereunder by Ca	y claim an semed wa without lim rdinal, reg	Cardinals liabilly and client's exclusive smarky for any claim arising whether based in contract or fort, shall be limited to the amogiquence and any other cause whotoever shall be downed waiwed unless made in witing and received by Cardinal within 30 d. ble for incidential or consequential diamages, including without limitation, business interruptions, jous of use, or loss of profits incur- lated to the performance of services horseunder by Cardinal, regardless of whether such claim is based into a sovice in above as	fort, shall be limited to the amount; a convent of the convent of the convent of the convent of the above stated the convent of the convent	a amount paid by the client for the 30 days after completion of the a incurred by client, its subsidiaries,	the spplicables,							
K, SV	Jimaya.	Time:	Rece	Received By:		Verbal Result:	are en zie@er	- (0	Please pro	provid	e Ema	No Add'I Phone #: Please provide Email address: com		
Relinquished By:		Date: Time:	Rece	Received By:		REMARKS:								
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C H 42. Corrected Temp. °C 3, 8.	13 K	Sample Condition Cool Intact Lives Yes	n CHECKED BY:	BY: Turnaround Time:	Time:	#	Standard Rush			Bacteria (only) Cool Intact	Bacteria (only) Sample Condition Cool Infact Observed Temp, °C Yes Yes	



November 12, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

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

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

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 11/06/2024 Reported: 11/12/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 03 0.5' (H246776-01)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	764	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	277	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/06/2024 Reported: 11/12/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 04 0.5' (H246776-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	273	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	104	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/06/2024 Reported: 11/12/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: FS 05 0.5' (H246776-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	62.2	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	21.5	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	123 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: OXY - EDDY COUNTY, NM

ma/ka

Sample ID: FS 06 0.5' (H246776-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	24.3	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/06/2024 Reported: 11/12/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 07 1' (H246776-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	17.9	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: OXY - EDDY COUNTY, NM

Sample ID: SW 03 0-0.5' (H246776-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/06/2024 Sampling Date: Reported: 11/12/2024 Sampling Type:

Project Number: 03B1417197 Project Location: OXY - EDDY COUNTY, NM

SAND DUNES FED 28 #1 SWD

11/05/2024

Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

Soil

Sample ID: SW 04 0-0.5' (H246776-07)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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11/05/2024

Analytical Results For:

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

Received: 11/06/2024 Sampling Date:

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03B1417197 Tamara Oldaker

Project Location: OXY - EDDY COUNTY, NM

Sample ID: SW 05 0-0.5' (H246776-08)

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Project Number: 03B1417197 Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY COUNTY, NM

Sample ID: SW 06 0-1' (H246776-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	115 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 %	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: OXY - EDDY COUNTY, NM

Sample ID: DS 01 0.25' (H246776-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: Sampling Type: Soil 11/12/2024

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Project Number: Sample Received By: 03B1417197 Tamara Oldaker

Project Location: OXY - EDDY COUNTY, NM

Sample ID: DS 02 0.25' (H246776-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	217	109	200	4.43	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	187	93.7	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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

> Observed Time:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	: Ensolum, LLC			BILL TO				ANALYSIS REQUEST
Project Manager:	Samontry	MUCLOUNTE		P.O. #:		\dashv		
Address: 601 N	arienfeld Stree	ite 400		DXY, USA, Inc.				
City: Midland		State: TX	Zip: 79701	ATTW: wade Pitavich	HARCH	_		
Phone #: 76	3-357-3545			Address:		_		
	CB14H1889	Project Owner:		City:		_		
340	1 punes Fed	58 AI SW		State: Zip:		_		
Project Location:	10	NW		Phone #		_	Ò	
Sampler Name:	Noah Duker			Fax #:		_	50	
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING				
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX 80	772.00	TPH gols Chlowds	
Limit Million	603	0.5	#	× 10	(10)	7	\times	
ı	404	0.57	C	X 11/5/54	SIII	×	×	
w	F%5	0.5	C - ×	X 1/5/24 1	SAII	_	×	
h	F506	0.5	CIX	1 42/5/11 1	(424)	×	×	
S	F/07	1	CIX	X 11/5/24	(HOO X		×	
te	5003	50-0	×	y W2724	(80)	-	X	
2	+ Coms	5,0-0	××	X W/5/24	000	3 >	< X	
90	90m5	0-1	× ×	45/5/11 X	K SOPI		\(\frac{1}{2}\)	
10	1050	0.25	8 / X	X (1/5/22	5480	X	×	
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Cal affiliates or successors arising	and Darnages. Cardinal's liability and clie ding those for negligence and any other Cardinal be liable for incidental or consession out of or related to the nerformance	lient's exclusive remedy for an r cause whatsoever shall be d equental damages, including e of services hereunder by Co	y claim arising whether based in contract or tort, a eerned waived unless made in witing and receive without limitation, business interruptions, loss of use dring in regardless of whether such claim is based	hall be limited to the amount paid d by Cardinal within 30 days after le, or loss of profits incurred by cli upon any of the above stated rea	by the client for the completion of the app ent, its subsidiaries, sons or otherwise.	plicable		
hed E		Date:	Received/By:	111	Verbal Result: ☐ Ye All Results are emailed.	e emai	(0)	。 夏 No Add'i Phone #: Please provide Email address:
Mudh	Roull	Time: 35	Moullaka	Market	Smackenzial Physium, Com	James .	5.7	om
Relinquished By		Date:	Received By:	,	REMARKS:			

CHECKED BY: (Initials)

Thermometer ID #173 #/40

Standard

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

☐ Yes ☐ Yes ☐ No ☐ No

Corrected Temp. °C

Relinquished By:

Received By:

REMARKS:

Smackey Should com

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

Time:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name	Company Name: Ensolum, LLC			BILL TO		ANALYSIS REQUEST	
Project Manager:	Samouted	Mackeyzie		P.O. #:			
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	uite 400		75 My 1801 / YO			
City: Midland		State: TX	Zip: 79701	Attai wade D. HAKEY	123		
Phone #: 7€	3286-452-402	Fax #:		Address:			
Project #: 💍	2614171920	Project Owner:	ñ	City:			
Project Name:	Project Name: Sand Rung Feder	4	W	State: Zip:			
Project Location	Project Location: Eddy (oursty NM	MM		#			
Sampler Name:	Noun Juker	Na.		Fax #:	So.		
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX SOZI TPH SOIS (4/addes 4		
11	20%	25.0	-	X 11/5/24 0890	X X X		
	/						
	W 3th		/				
	,	1	/				
		75/		/			
				/			
				/			
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Ca	d Damages. Caidinal's liability and o githose for negligence and any othe rdinal be liable for incidental or cons	lient's exclusive remedy for a r cause whatsoever shall be of sequental damages, including	ny claim arising whether based in contract deemed waived unless made in writing an without limitation, business interruptions.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or but, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	e client for the pletton of the applicable ts subsidiaries,		
Relinquished By:	Relinquished By: Date:	Date: 24	Received By:	regardless of whether such daim is based upon any of the above stated reasons otherwise celved By: All Resultes All Resultes	ult:	No Add'l Phone #:	
	7	10.01	16	111111111111111111111111111111111111111	All results are emailed. Please	Please provide Email address:	

(Initials)

Turnaround Time:

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

☐ Yes ☐ Yes ☐ No ☐ No

Corrected Temp. °C

Page 15 of 15



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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



09/13/2024

Analytical Results For:

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

Received: 09/16/2024

Reported: 09/19/2024 Sampling Type: Soil Project Name: LEA LAND CALICHE PIT Sampling Condition: Coo

Project Name: LEA LAND CALICHE PIT Sampling Condition: Cool & Intact
Project Number: 03B1417160 Sample Received By: Tamara Oldaker

Applyand By 14

Sampling Date:

Project Location: OXY

Sample ID: LEA LAND CALICHE PIT 0.5' (H245619-01)

BTEX 8021B	mg/	kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/17/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d 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	
DRO >C10-C28*	98.6	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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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CARDINALLaboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Ensolum, LLC Project #: 038(4)7160 Delivered By: (Circle One) Sampler - UPS - Bus - Other Sampler Name: Kaoru Shimada Phone #: (210)219-8858 Address: 601 N. Marienfeld St. STE 400 Project Manager: Beaux Jennings Relinquished By: Relinquished By: Lab I.D. Kapry roject Location: Midland FORM-006 R 3.2 10/07/21 1537 ca hard Sample I.D. himada LARO State: TX Caliche P. Project Owner: Zip: Observed Temp. °C Corrected Temp. °C Caliche Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Time:/400\ Sample Depth (feet) 79701 Email:bjennings@ensolum.com (G)RAB OR (C)OMP Received By: # CONTAINERS GROUNDWATER Sample Condit WASTEWATER MATRIX SOIL OIL SLUDGE State: P.O. #: OTHER: Attn: Wade Dittrich Address: Email: Phone #: City: Company: OXY USA CHECKED BY: ICE / COOL BILL TO OTHER Zip DATE SAMPLING Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Paykey/AFE/NonAFE: 1041 -0.60 Te **BTEX 8021B** Cool Intact X **TPH 8015M** × Chloride 4500 ANALYSIS REQUEST Hold

Page 4 of 4

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 426320

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	426320
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2218940420
Incident Name	NAPP2218940420 SAND DUNES 28 FED 1 SWD @ 30-015-26194
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-26194] SAND DUNES 28 FEDERAL #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAND DUNES 28 FED 1 SWD
Date Release Discovered	07/05/2022
Surface Owner	Federal

Incident Details		
Please answer all the questions in this group.		
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	

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Injection Produced Water Released: 15 BBL Recovered: 1 BBL Lost: 14 BBL.
s 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 426320

QUESTIONS (continued)		
Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696 Action Number: 426320 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s The source of the release has been stopped	rafety hazard that would result in injury. True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releating OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/29/2025	

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 3

Action 426320

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	426320
	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 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (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	Between 1 and 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Between 1 and 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	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
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.		
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 mi	illigrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	8320	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8360	
GRO+DRO (EPA SW-846 Method 8015M)	6080	
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 06/24/2024		
On what date will (or did) the final sampling or liner inspection occur	11/05/2024	
On what date will (or was) the remediation complete(d)	11/05/2024	
What is the estimated surface area (in square feet) that will be reclaimed	9146	
What is the estimated volume (in cubic yards) that will be reclaimed	6	
What is the estimated surface area (in square feet) that will be remediated	9146	
What is the estimated volume (in cubic yards) that will be remediated	6	
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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 426320

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	426320
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	No	
OR is the off-site disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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

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

Name: Wade Dittrich
Title: Environmental Coordinator
Email: wade_dittrich@oxy.com
Date: 01/29/2025

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.

Released to Imaging: 1/30/2025 1:39:55 PM

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

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

QUESTIONS, Page 5

Action 426320

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	426320
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
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.	
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 426320

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	426320
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	397617
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	9145

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
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	9146	
What was the total volume (cubic yards) remediated	6	
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	9146	
What was the total volume (in cubic yards) reclaimed	6	
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: 01/29/2025

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 7

Action 426320

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	426320
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

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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

CONDITIONS

Action 426320

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	426320
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
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.	1/30/2025
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.	1/30/2025
crystal.walker	A revegetation report will not be accepted until revegetation 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.	1/30/2025
crystal.walker	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	1/30/2025