

January 15, 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 South Corridor CTB Incident Number nAPP2225058146 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, excavation, and soil sampling activities performed at the Sand Dunes South Corridor CTB (Site). The purpose of the Site assessment, delineation, excavation, and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a produced water release at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this *Closure Request*, describing Site assessment delineation, and excavation activities that have occurred and requesting closure for Incident Number nAPP2225058146.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 18, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.22338°, -103.813103°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 15, 2022, a water inlet line failed due to corrosion, resulting in the release of approximately 30 barrels (bbls) of produced water on pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 10 bbls of produced water were recovered. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 22, 2022. The release was assigned Incident Number nAPP2225058146.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. The Site Closure Criteria is identified on Figure 4.

Depth to groundwater at the Site is reasonably estimated to be between 51 feet to 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Society (USGS) well 321310103482101, located approximately 0.4 miles southeast of the Site. The depth to water was most recently measured on

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January 17, 2013 and indicated to be 74.44 feet bgs. The associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a pond, located approximately 2,232 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Closure criteria is identified on Figure 4.

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

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

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 25, 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. Five potholes (PH01 through PH05) were advanced via hydrovac within the release extent to assess the presence or absence of impacted soil. The delineation potholes were advanced to depths ranging from 3 feet to 4 feet bgs. Discrete delineation soil samples were collected from potholes PH01 through PH05 at depths ranging from 0.5 feet to 4 feet bgs. Additionally, seven soil samples (SS01 through SS07) were collected around the release area, at a depth of approximately 0.5 feet bgs to confirm the lateral extent of the release. The Delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for potholes PH01 through PH05 indicated all COCs were compliant with the Site Closure Criteria and the Site was vertically delineated to the most stringent Table I Closure Criteria. Laboratory analytical results for soil samples SS01 through SS07 indicated all COCs were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release.



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COMPOSITE SAMPLING, EXCAVATION ACTIVITIES, AND LABORATORY ANALYTICAL RESULTS

Between August 20, 2024 and November 4, 2024, Ensolum personnel returned to the Site to collect 5-point composite soil samples every 200 square feet from the release extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Eighteen composite soil samples (CS01 through CS18) were collected at a depth of 0.5 feet bgs to confirm the absence of impacted soil. The soil samples were handled and analyzed following the same procedures as described above.

Laboratory analytical results for composite soil samples CS01, CS02, CS04, CS06 through CS09, CS11 through CS13, CS15, and CS16 indicated all COCs were compliant with the Site Closure Criteria. Laboratory analytical results for composite soil samples CS03, CS05, CS10, CS14, CS17, and CS18 indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Soil in the vicinity was excavated via hydrovac to a depth of 1-foot bgs. Subsequent composite floor samples FS03 through FS05, FS10, FS14, FS17, and FS18 were collected from the floor of the excavations at a depth of 1-foot bgs. Four sidewall soil samples (SW01 through SW04) were collected from the sidewalls of the excavations at depths ranging from the ground surface to 1-foot bgs. The soil samples were handled and analyzed following the same procedures described above. 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 visits and a photographic log is included as Appendix C.

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 floor soil samples FS03, FS04, and FS05 were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemical of concern (COC): chloride following EPA Method SM4500. The floor soil samples FS14, FS17, and FS18 were analyzed for the following COCs: TPH-GRO, TPH-DRO, and TPH-ORO following EPA Method 8015M/D; and chloride following EPA Method SM4500. The sidewall samples SW01 through SW04 were analyzed for the following COCs: BTEX following United States EPA Method 8021B; TPH-GRO, TPH-DRO, TPH-ORO following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for soil samples FS03 throughFS05, FS10, FS14, FS17, and FS18 indicated all COCs were compliant with the Site Closure Criteria. Laboratory analytical results for sidewall soil samples SW01 through SW04 indicated all COC concentrations were compliant with the most stringent Closure Criteria.

The Excavation areas measured approximately 3,246 square feet. A total of 74 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Ramirez and Sons Facility in Lea County, New Mexico.

Subsequent to the results of the final confirmation soil sampling, the excavated areas were backfilled with clean fill material and contoured to the original surrounding grade. One representative 5-point composite soil sample (Ramirez & Sons Caliche Pit) was collected from the backfill material prior to use at the Site. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirements for the reclaimed area to be non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 2 and the complete laboratory analytical report is included as Appendix D. Since the release area was on an active pad site, final reclamation or revegetation was not required at this time.

CLOSURE REQUEST



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Site assessment and remediation activities were conducted at the Site to address the August 2022 produced water release. Laboratory analytical results for the assessment and excavation activities indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the laboratory analytical results, no further remediation is required at this time.

Depth to groundwater was determined to be between 51 feet to 100 feet bgs within 0.5 miles of the Site and no other sensitive receptors were identified near the release extent. Oxy believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, Oxy respectfully requests closure for Incident Number nAPP2225058146.

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

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

Bureau of Land Management Office

Beaux Jennings Associate Principal

Appendices:

CC:

Figure 1 Topographic Map Figure 2 Site Vicinity Map

Figure 3 Site Map

Figure 4 Closure Criteria Map

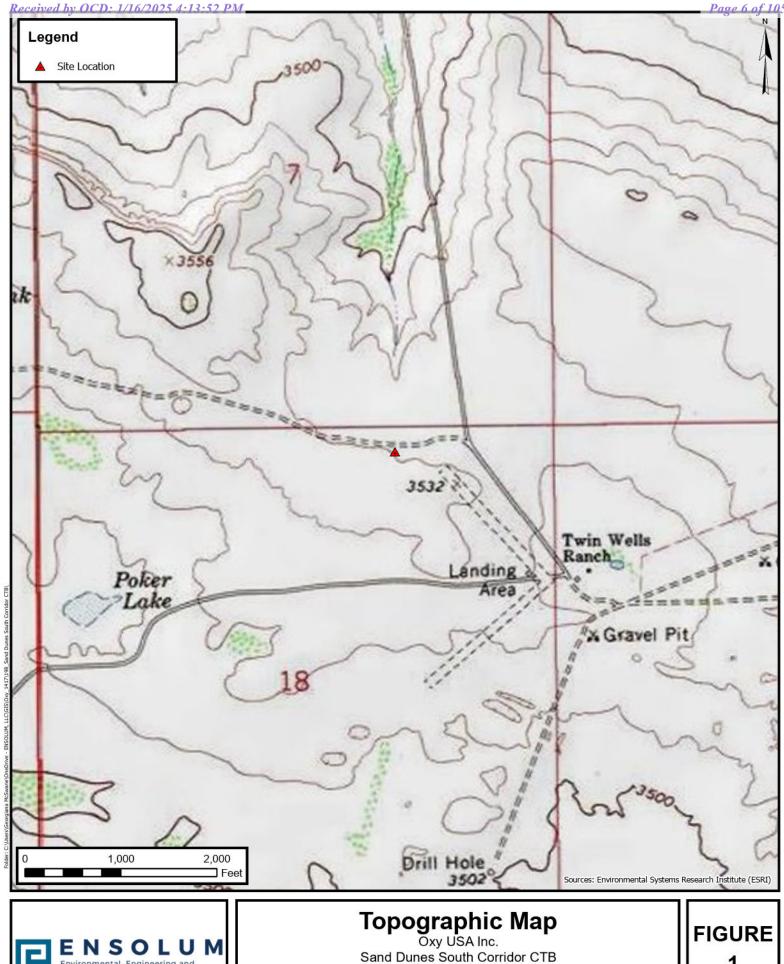
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

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



FIGURES

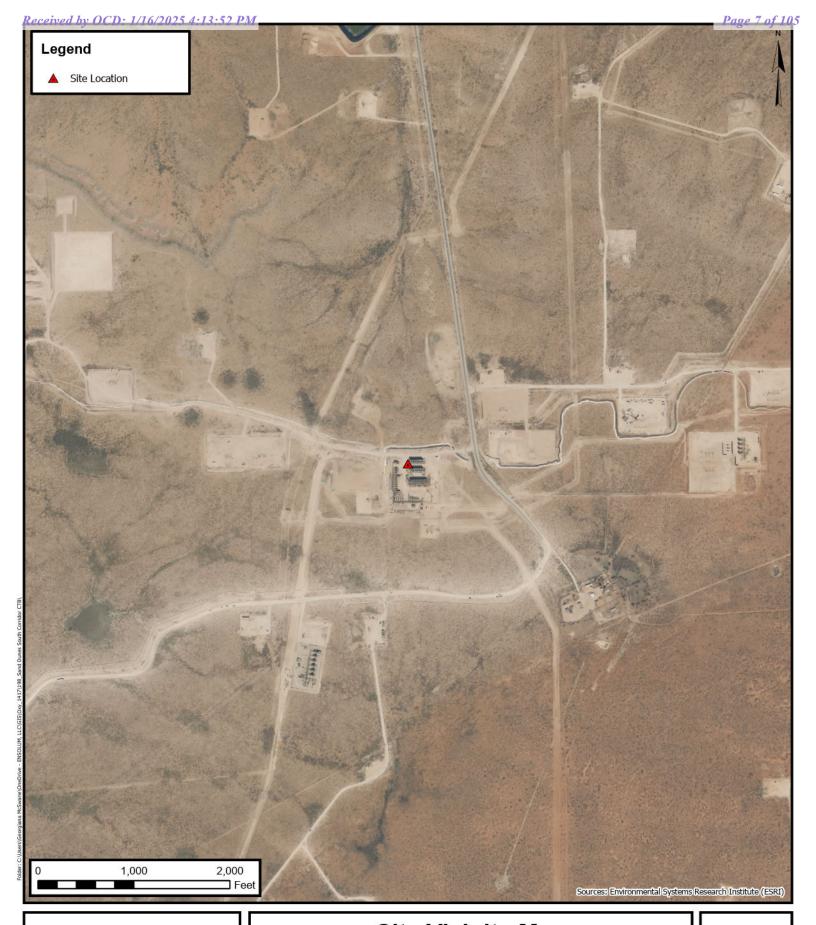




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32.22338° N, 103.813103° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417198



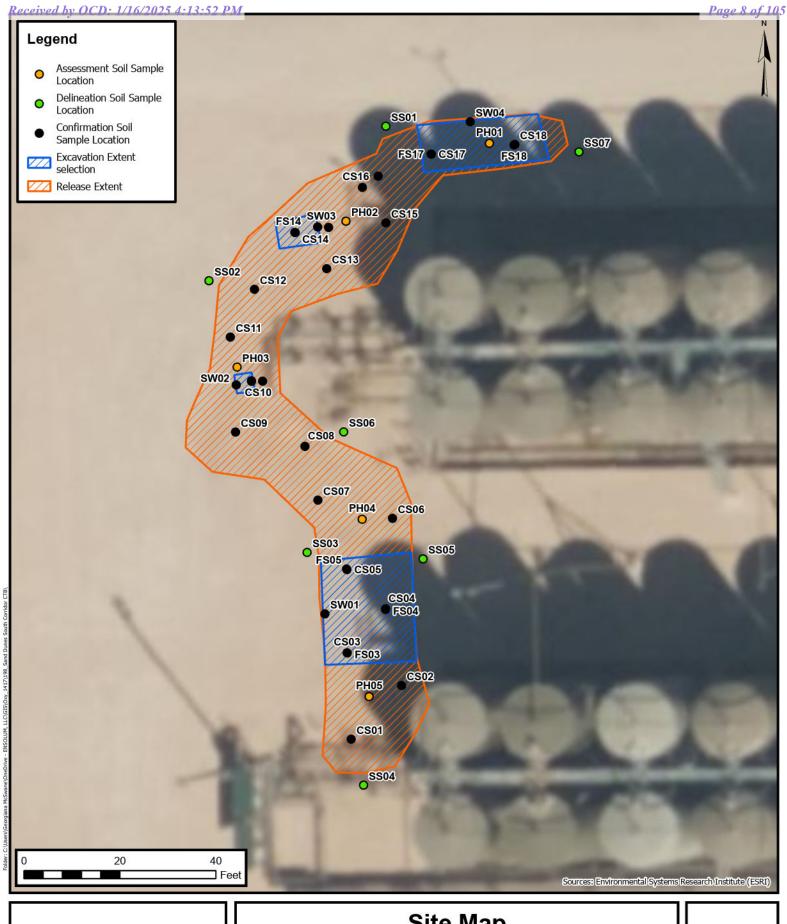


Site Vicinity Map
Oxy USA Inc.
Sand Dunes South Corridor CTB
32.22338° N, 103.813103° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417198

FIGURE 2

Released to Imaging: 1/22/2025 9:10:31 AM





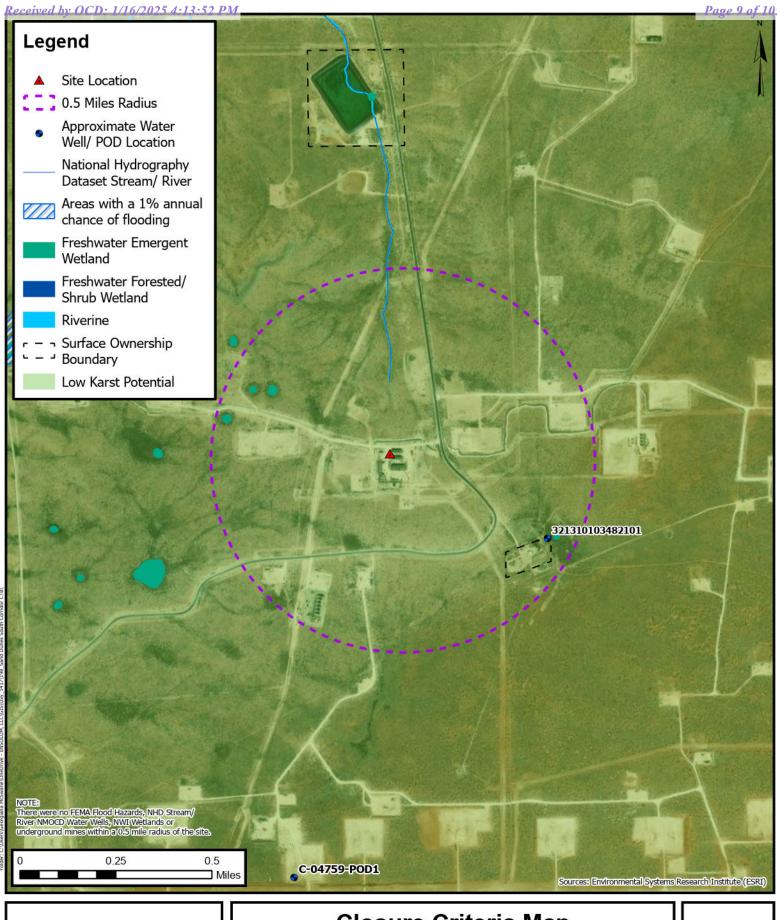
Site Map

Oxy USA Inc. Sand Dunes South Corridor CTB 32.22338° N, 103.813103° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417198

FIGURE 3

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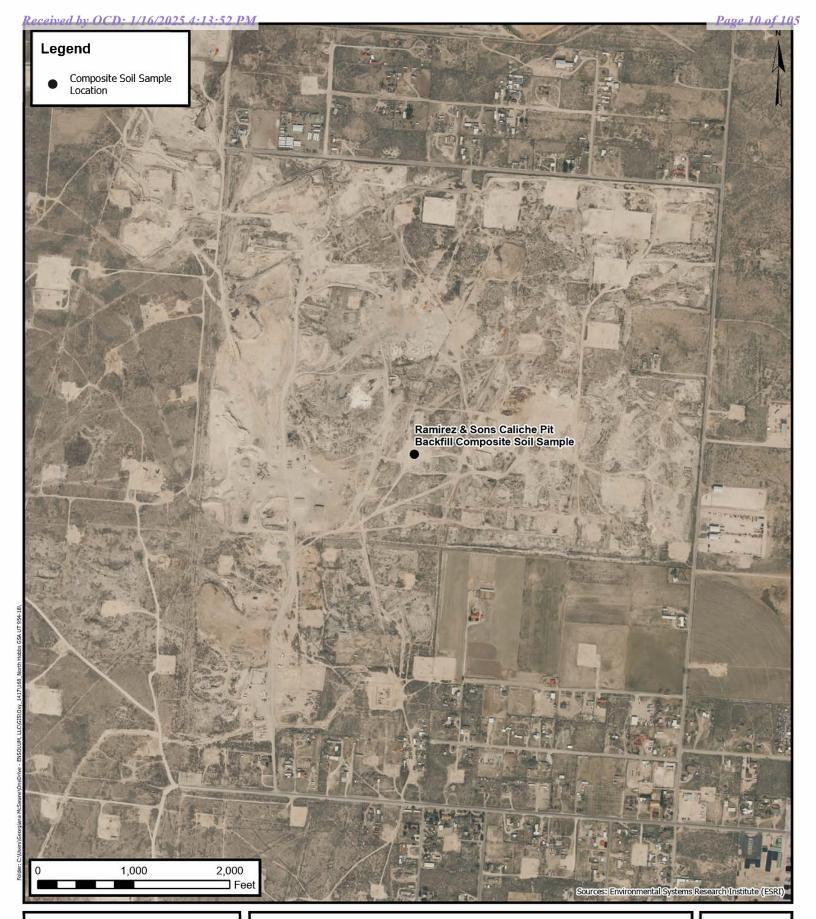
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Closure Criteria Map

Oxy USA Inc.
Sand Dunes South Corridor CTB
32.22338° N, 103.813103° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417198

FIGURE 4





Backfill Site Map

Ramirez & Sons Caliche Pit 32.736937° N, 103.187229° W Lea County, New Mexico ATTACHMENT

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TABLES

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes South Corridor CTB

Oxy USA, Inc. Eddy County, New Mexico Ensolum Project No. 03B1417198

											TPH		
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	GRO+DRO C ₆ -C ₂₈ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
	l Conservation I Soils Impacted b		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
					Delineation	n Soil Sample	Analytical Resu	ilts					
	06/25/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,440
PH01	06/25/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,280
PHUI	06/25/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,550
	06/25/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
	06/25/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,200
	06/25/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
PH02	06/25/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
	06/25/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
	06/25/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	06/25/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
PH03	06/25/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	06/25/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	06/25/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,960
PH04	06/25/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
	06/25/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	06/25/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	73.7	<10.0	73.7	73.7	1,730
PH05	06/25/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
	06/25/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes South Corridor CTB

Oxy USA, Inc. Eddy County, New Mexico Ensolum Project No. 03B1417198

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH GRO+DRO C ₆ -C ₂₈ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000	
SS01	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.0	<10.0	23.0	23.0	32.0
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	32.0
SS03	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.9	<10.0	16.9	16.9	16.0
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	<16.0
SS05	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	32.0
SS06	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	16.0
SS07	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	<16.0

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

Concentrations filled in have been excavated

bgs: below ground surface mg/kg: milligrams per kilogram

NE: Not Established
NS: Not Sampled

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics TPH: Total Petroleum Hydrocarbons



TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes South Corridor CTB

Oxy USA, Inc. Eddy County, New Mexico Ensolum Project No. 03B1417198

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH GRO+DRO C ₆ -C ₂₈ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
	l Conservation [Soils Impacted b	Division Closure by a Release	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
					Confirmation	n Soil Sample	Analytical Resu	ılts					
CS01	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	115	43.2	115	158	3,960
CS02	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.4	<10.0	22.4	22.4	8,000
CS03	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.5	<10.0	28.5	28.5	12,000
FS03	11/04/2024	1					NS						368
CS04	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	216	64.5	216	281	10,000
FS04	11/04/2024	1					NS						512
CS05	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.5	<10.0	15.5	15.5	12,600
FS05	11/04/2024	1					NS						160
CS06	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.8	<10.0	11.8	11.8	9,400
CS07	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.3	<10.0	17.3	17.3	5,330
CS08	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	48.5	18.0	48.5	66.5	3,200
CS09	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,200
CS10	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,700
FS10	11/04/2024	1					NS						816
CS11	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,760
CS12	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.4	<10.0	18.4	18.4	848
CS13	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	34.4	12.2	34.4	46.6	2,400

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes South Corridor CTB Oxy USA, Inc.

Eddy County, New Mexico
Ensolum Project No. 03B1417198

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH GRO+DRO C ₆ -C ₂₈ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Criteria for	Conservation D Soils Impacted b		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
CS14	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,940	1,040.0	3,940	4,980	3,640
FS14	11/04/2024	1			NS			<10.0	<10.0	<10.0	<10.0	<10.0	NS
CS15	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.8	<10.0	40.8	40.8	1,280
CS16	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.5	<10.0	45.5	45.5	224
CS17	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,810	1,030	1,810	2,840	256
FS17	11/04/2024	1			NS			<10.0	<10.0	<10.0	<10.0	<10.0	NS
CS18	08/20/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,220	1,300	2,220	3,520	5,860
FS18	11/04/2024	1			NS			<10.0	<10.0	<10.0	<10.0	<10.0	NS
					Sidewall	Soil Sample A	nalytical Result	s					
SW01	11/04/2024	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW02	11/04/2024	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW03	11/04/2024	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW04	11/04/2024	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

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

Concentrations filled in have been excavated

bgs: below ground surface mg/kg: milligrams per kilogram

NE: Not Established NS: Not Sampled

mg/kg: milligrams per kilogram

 ${\it BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes}$

GRO: Gasoline Range Organics DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics TPH: Total Petroleum Hydrocarbons



APPENDIX A

Referenced Well Records



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 <u>NEW 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: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321310103482101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321310103482101 24S.31E.17.13120

Eddy County, New Mexico Latitude 32°13'14.1", Longitude 103°48'23.4" NAD83 Land-surface elevation 3,530.00 feet above NGVD29

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

- Carpar 101 mato
Table of data
Tab-separated data
Graph of data
Reselect period

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
1959-02-0	3	I	6261	0	3459.50	NGVD29	Р	Z			
959-02-0	3	[6261	1	3461.24	NAVD88	Р	Z			
959-02-0	3	[7201	9 70.50			Р	Z			
.959-03-2	5	[6261	0	3462.33	NGVD29	1	Z			
.959-03-2	5	[6261	1	3464.07	NAVD88	1	Z			
959-03-2	5	[7201	9 67.67			1	Z			
976-12-0	2	I	6261	0	3463.98	NGVD29	1	Z			
.976-12-0	2	[6261	1	3465.72	NAVD88	1	Z			
.976-12-0	2	[7201	9 66.02			1	Z			
013-01-1	7 21:00 UTC	n	n 6261	0	3455.56	NGVD29	1	S	USG	S	S
013-01-1	7 21:00 UTC	n	n 6261	1	3457.30	NAVD88	1	S	USG	S	S
2013-01-1	7 21:00 UTC	n	n 7201	9 74.44			1	S	USG	S	S

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined

Received by OCD: 1/16/2025 4:13:52 PM

Section	Code	Description
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

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: 2024-06-12 14:00:33 EDT

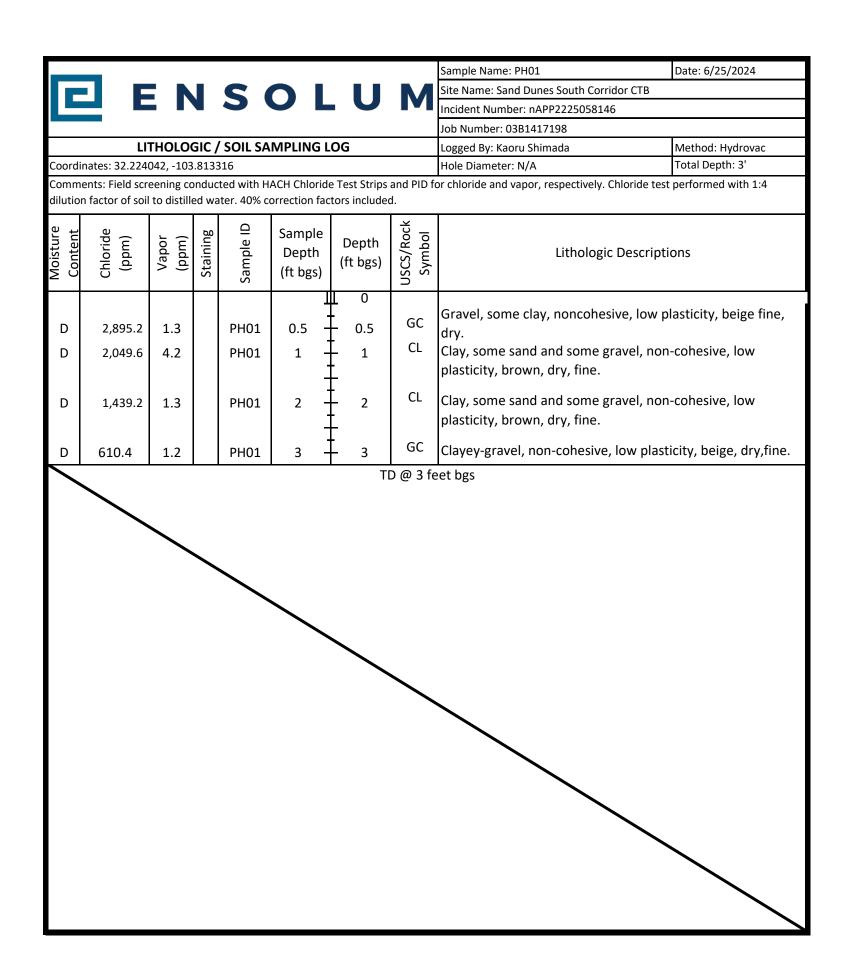
0.34 0.31 nadww01

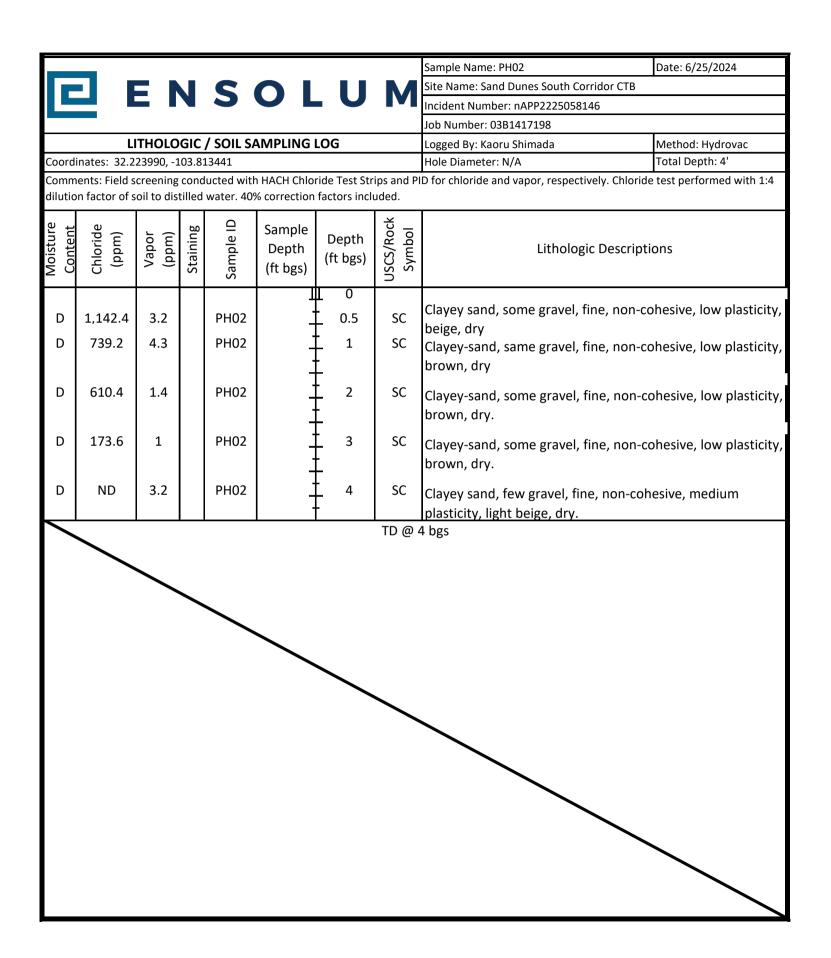


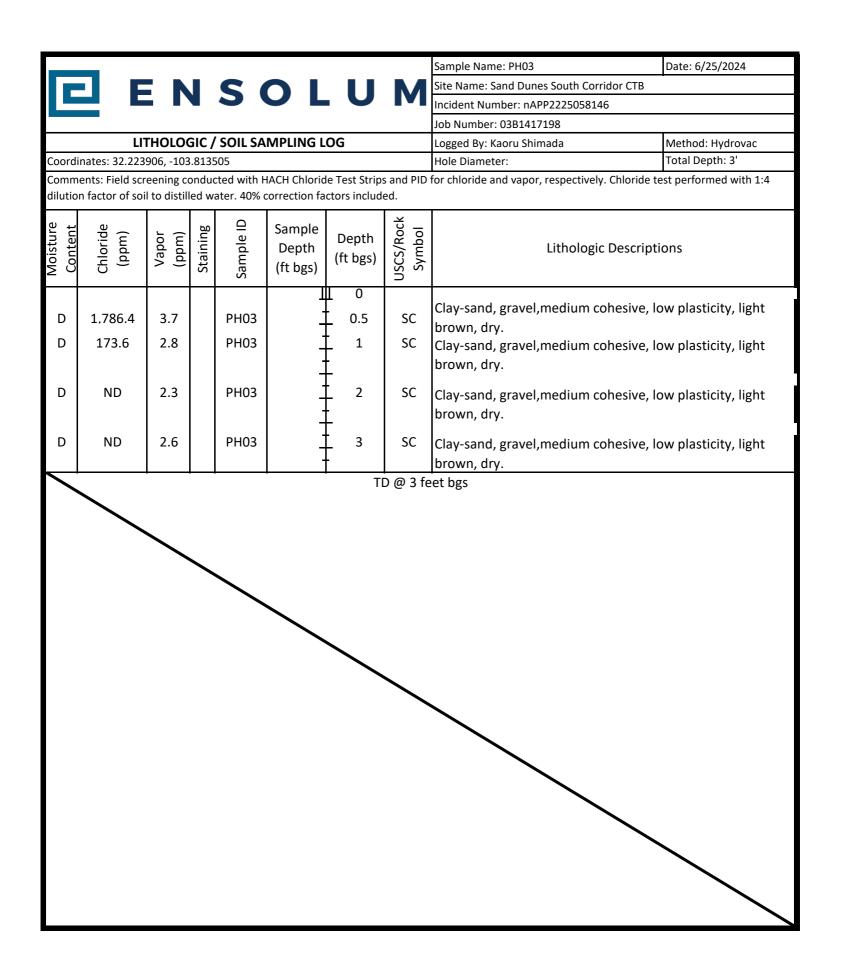


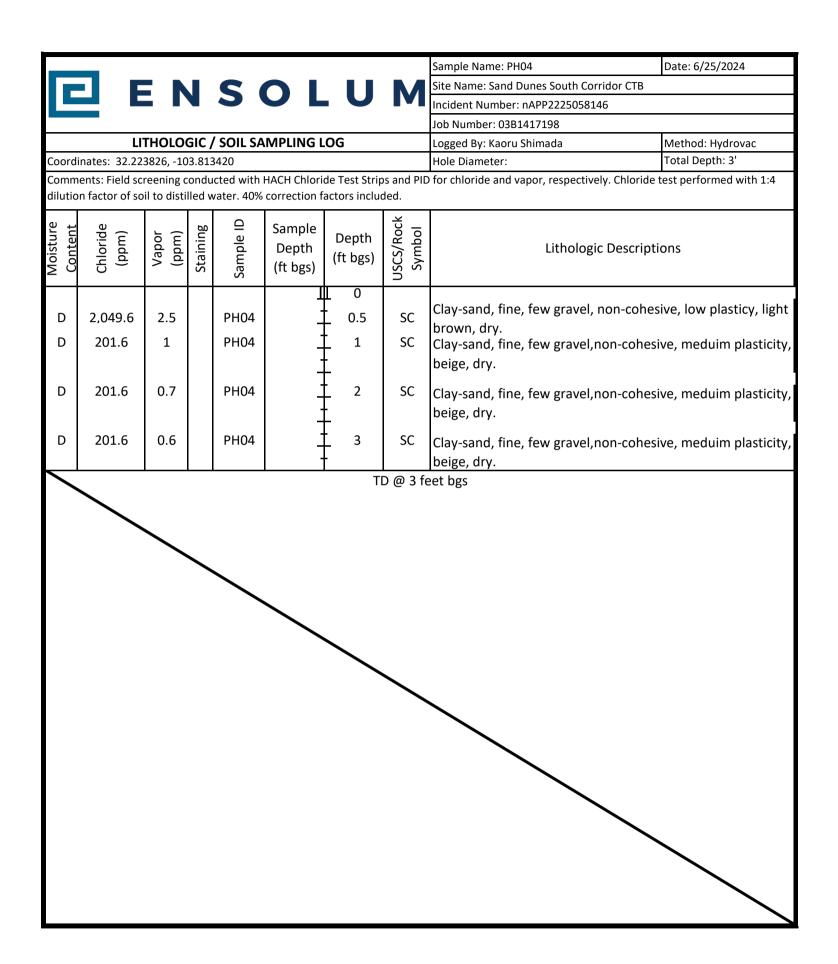
APPENDIX B

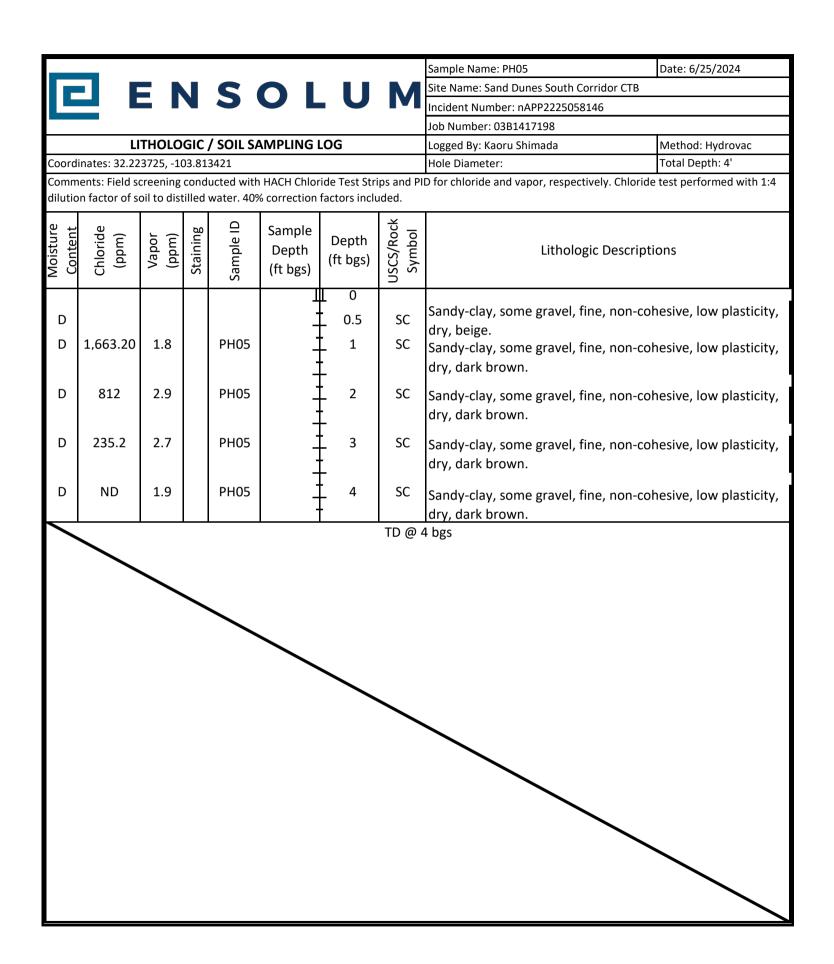
Lithologic Soil Sampling Logs













APPENDIX C

Photographic Log



Photographic Log

Oxy USA Inc. Sand Dunes South Corridor CTB Incident Number nAPP2225058146





Date: 7/11/2024

Date: 11/5/2024

Photograph: 1

Description: Release footprint

Date: 7/11/2024

Photograph: 2

Description: Release footprint

View: Northeast

View: Northeast





Photograph: 3

Date: 11/5/2024

Description: Excavation Activites

View: Northeast

Photograph: 4

Description: Excavation Activites

View: Northwest



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



July 02, 2024

BEAUX JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: SAND DUNES SOUTH CORRIDOR CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 15:02.

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. Keine

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

Received: 06/25/2024 Sampling Date: 06/25/2024

Reported: 07/02/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.55793,-103.19143

mg/kg

Sample ID: PH01 0.5 (H243803-01)

BTEX 8021B

BIEX GOEED	9	119	Anaryzo	a 2 y : 3 : 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	07/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	181	90.3	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	161	80.3	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

SAND DUNES SOUTH CORRIDOR CTB

ma/ka

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: 32.55793,-103.19143

Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH01 1 (H243803-02)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	07/01/2024	ND	432	108	400	3.64	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

Applyzod By: 14

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Celey D. Kreine



Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

Sampling Date: 06/25/2024 Sampling Type: Soil

Project Name: Project Number:

SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact 03B1417198 Sample Received By: Shalyn Rodriguez

Project Location: 32.55793,-103.19143

Sample ID: PH01 2 (H243803-03)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 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	1550	16.0	07/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 06/25/2024 Reported:

07/02/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: Project Number: 03B1417198

Project Location: 32.55793,-103.19143 Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH01 3 (H243803-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 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	512	16.0	07/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

SAND DUNES SOUTH CORRIDOR CTB

mg/kg

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: 32.55793,-103.19143

Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH02 0.5 (H243803-05)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	07/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: 32.55793,-103.19143 Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH02 1 (H243803-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	608	16.0	07/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 06/25/2024

Sampling Date:

06/25/2024

Reported: Project Name: 07/02/2024

Sampling Type:

Soil Cool & Intact

Project Number:

RTFY 8021R

03B1417198

ma/ka

Sampling Condition: Sample Received By:

Shalyn Rodriguez

Project Location:

32.55793,-103.19143

SAND DUNES SOUTH CORRIDOR CTB

Sample ID: PH02 2 (H243803-07)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

SAND DUNES SOUTH CORRIDOR CTB

ma/ka

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: 32.55793,-103.19143

Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH02 3 (H243803-08)

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050	Analyzed 07/01/2024	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
		07/01/2024						•
<0.050			ND	2.03	102	2.00	1.63	
	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
<0.300	0.300	07/01/2024	ND					
97.0	% 71.5-13	4						
mg/	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	07/01/2024	ND	432	108	400	3.64	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/01/2024	ND	213	107	200	0.415	
<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
<10.0	10.0	07/01/2024	ND					
113 9	% 48.2-13	4						
113 9	% 49.1-14	8						
	<0.050 <0.150 <0.300 97.0 mg/ Result 144 mg/ Result <10.0 <10.0 113.9	<0.050 0.050 <0.150 0.150 <0.300 0.300 97.0 % 71.5-13 mg/ky Result Reporting Limit 144 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Applyzod By: 14

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Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

SAND DUNES SOUTH CORRIDOR CTB

mg/kg

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: 32.55793,-103.19143

Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH02 4 (H243803-09)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 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	48.0	16.0	07/01/2024	ND	432	108	400	3.64	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

Analyzed By: JH

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06/25/2024

Shalyn Rodriguez

Analytical Results For:

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

Received: 06/25/2024 Reported:

07/02/2024 Sampling Type: Soil Sampling Condition: Cool & Intact

Sampling Date:

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Sample Received By: Project Number: 03B1417198

Project Location: 32.55793,-103.19143

Sample ID: PH03 0.5 (H243803-10)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	2400	16.0	07/01/2024	ND	432	108	400	3.64	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 06/25/2024 Reported:

07/02/2024

mg/kg

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: 32.55793,-103.19143 Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH03 2 (H243803-11)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	96.0	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: 32.55793,-103.19143 Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH03 3 (H243803-12)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	112	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 06/25/2024 Reported:

07/02/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: Project Number: 03B1417198

Project Location: 32.55793,-103.19143 Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH05 1 (H243803-13)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 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	1730	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	73.7	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

SAND DUNES SOUTH CORRIDOR CTB

mg/kg

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: 32.55793,-103.19143

Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH05 3 (H243803-14)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	288	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

07/02/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: 32.55793,-103.19143

ma/ka

Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH05 4 (H243803-15)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	112	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

SAND DUNES SOUTH CORRIDOR CTB

Project Name: Project Number: 03B1417198

Project Location: 32.55793,-103.19143 Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH04 0.5 (H243803-16)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	1960	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	114 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 %	6 49.1-14	8						

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Analytical Results For:

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

Received: 06/25/2024 Reported:

Sampling Date: 06/25/2024 07/02/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Sampling Condition: Cool & Intact Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.55793,-103.19143

mg/kg

Sample ID: PH04 1 (H243803-17)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 06/25/2024 Reported: 07/02/2024

07/02/2024 Sampling Ty SAND DUNES SOUTH CORRIDOR CTB Sampling Co

Project Name: SAND DUNES SOUTH (
Project Number: 03B1417198

Project Location: 32.55793,-103.19143

ma/ka

Sampling Date: 06/25/2024

Sampling Type: Soil

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

Sample ID: PH04 3 (H243803-18)

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	07/01/2024	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	07/01/2024	ND	1.98	98.8	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.09	102	6.00	1.64	
Total BTEX	<0.300	0.300	07/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 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	192	16.0	07/01/2024	ND	416	104	400	3.77	
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	07/01/2024	ND	213	107	200	0.415	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	191	95.4	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Applyzod By: 14

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keine

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

Corrected Temp.

Sample Condition
Cool Intact
Yes Yes

CHECKED BY

Cool Intact

Bacteria (only) Sample Conditio

□ No □ No

cted Temp. °C

REMARKS: Paykey/AFE/NonAFE:

ORM-006 R 3.2 10/07/21

Relinquished By:

MINOR

Mimado-

Relinquished By:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Sampler Name: Kaoru Shimada Project Location: Project Name: Project#: () 3 13 14 17 1 48 Phone #: (210)219-8858 City: Midland Project Manager: Beaux Jennings Address: 601 N. Marienfeld St. STE 400 Lab I.D. Sanch Dunes Sample I.D. MO) PH02 O HA 20 HO 72 HOZ State: TX Zip: 79701 Project Owner: South Sample Depth (feet) 8,0 Corridor Email:bjennings@ensolum.com (G)RAB OR (C)OMP. SLUDGE OTHER State: City: P.O. #: Email: Phone #: Address: Company: OXY USA Attn: Wade Dittrich ACID/BASE ICE / COOL BILL TO Zip: 1 DATE SAMPLING TIME 3350 190 250 1003 5 4101 **BTEX 8021B TPH 8015M** Chloride 4500 ANALYSIS REQUEST



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Comment		, ,							
Company Name: Ensoidin, EEC	Solulli, LLC			BILL TO		>	ANALYSIS REQUEST	EST	
Project Manager: Beaux Jennings	aux Jennings			P.O. #:					
Address: 601 N. M	601 N. Marienfeld St. STE 400			Company: OXY USA					
City: Midland	State: TX	Zip: 79701		Attn: Wade Dittrich					
Phone #: (210)219-8858	8858	Email:bje	Email:bjennings@ensolum.com	Address:					
Project #: 03 B	14/1/18	Project Owner:		City:					
Project Name:	nel Dunce	South Con	erridor CTB	State: Zip:					
Project Location:				Phone #:	2	00			
Sampler Name: Kaoru Shimada	ru Shimada			Email:	В				
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING		_		90	
Lab I.D.	Sample I.D.	Sample Depth	ERS ATER		(80	801 oride	2		1021 - 5
	Campie I.D.	(feet)	AINE IDWA WAT	ASE:	ΞX			7	
H7:43803			(G)RAB # CONT GROUN WASTE SOIL OIL SLUDG	OTHER ACID/BA CE / CC OTHER DATE	BTE				
7	P463	2	K	>	X	K X			+
n	PH 03	a	7 7 7	7	100	7			
N	PHOS				0132				
4	ZH05	n.			11/41/				
n	PHOS	+			14411				
16	40 TZ	0,5			1256				2
	HOHY	_	70	7	1303	11			
D	PX BY	3	φ.	x 5.25-24	1311 ×	X			
LEASE NOTE: Liability and Damage	s. Cardinal's liability and client's exclu	sive remery for any claim arising whoth	PLEASE NOTE: Liability and Damages. Cardinal's liability and clear's enclusive remedy for any chim action whether haved in contract or local shall be limited as to the contract or local shall be limited as the contract						
All claims including those for neglin no event shall Cardinal be liable affiliates or successors arising out.	igence and any other cause whats for incidental or consequental dar of or related to the performance of	soever shall be deemed waived unle mages, including without limitation, t f services hereunder by Cardinal, reg	All claims notuding those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable service in no event shall Cardinal to liable for incidental or consequental damages, including without limitation, business interruptions, base of laws, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated respons or otherwise.	thin 30 days after completion of the applicable to the applicable to the applicable to the applicable to the above stated reasons or otherwise any of the above stated reasons or otherwise	service.	,			
Relinquished By:	Min made	Time COU	Received By:	Mountain	Verbal Result: ☐ Yes ☒ No [/ All Results are emailed. Please provide Email bjennings@ensolum.com, hgreen@ensolum.com	/es ∭ No ed. Please providom, hgreen@enso	M No Add'I Phone #: Please provide Email address: hgreen@ensolum.com		
Relinquished By:		Date:	Received By:	1	REMARKS: Paykey/AFE/NonAFE:	FE/NonAFE:			
		lime:							
Sampler - UPS - Bus - Other:		Corrected Temp. S	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard Rush	rd 🚵	ly) Sample Condi	,	
		ā	1	5	Correction Factor 4.5 C	7	C ON ON O	No Corrected Temp. *C	
FORM-006 R 3.2 10/07/21	.2 10/07/21								



August 02, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES SOUTH CORRIDOR CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 12:53.

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 KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/30/2024 Sampling Date: 07/30/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: OXY 32.223643, -103.812787

Sample ID: SS 01 0.5' (H244524-01)

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	1.90	95.0	2.00	0.283	
Toluene*	<0.050	0.050	07/30/2024	ND	1.87	93.6	2.00	0.559	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.92	96.2	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.67	94.4	6.00	2.47	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	ND	448	112	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	07/30/2024	ND	194	96.9	200	1.26	
DRO >C10-C28*	23.0	10.0	07/30/2024	ND	193	96.5	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	117 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/30/2024 Reported: 08/02/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

mg/kg

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

Sampling Date: 07/30/2024

Sampling Type: Soil

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

Sample ID: SS 02 0.5' (H244524-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.90	95.0	2.00	0.283	
Toluene*	<0.050	0.050	07/30/2024	ND	1.87	93.6	2.00	0.559	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.92	96.2	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.67	94.4	6.00	2.47	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 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	32.0	16.0	07/31/2024	ND	448	112	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	07/30/2024	ND	194	96.9	200	1.26	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	193	96.5	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreine



Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/30/2024 Reported:

08/02/2024

ma/ka

Project Name: SAND DUNES SOUTH CORRIDOR CTB Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 07/30/2024

Sampling Type: Soil

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

Sample ID: SS 03 0.5' (H244524-03)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150 <0.300	0.050 0.050 0.050 0.050 0.150	Analyzed 07/30/2024 07/30/2024 07/30/2024 07/30/2024	Method Blank ND ND ND	BS 1.90 1.87 1.92	% Recovery 95.0 93.6 96.2	2.00 2.00	RPD 0.283 0.559	Qualifier
<0.050 <0.050 <0.150	0.050 0.050 0.150	07/30/2024 07/30/2024	ND	1.87	93.6	2.00		
<0.050 <0.150	0.050 0.150	07/30/2024					0.559	
<0.150	0.150		ND	1.92	06.2			
		07/30/2024			90.2	2.00	2.18	
<0.300	0.300		ND	5.67	94.4	6.00	2.47	
	0.300	07/30/2024	ND					
98.2	% 71.5-13	4						
mg/	/kg	Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	07/31/2024	ND	448	112	400	0.00	
mg/	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/30/2024	ND	194	96.9	200	1.26	
16.9	10.0	07/30/2024	ND	193	96.5	200	6.74	
<10.0	10.0	07/30/2024	ND					
120 5	% 48.2-13	4						
120 9	% 49.1-14	8						
	98.2 mg/ Result 16.0 mg/ Result <10.0 16.9 <10.0	98.2 % 71.5-13 mg/ky Result Reporting Limit 16.0 16.0 mg/ky Result Reporting Limit <10.0 10.0 16.9 10.0 <10.0 10.0	<0.300 0.300 07/30/2024 98.2 % 71.5-134 mg/ky Analyzed Result Reporting Limit Analyzed Analyzed <10.0	<0.300 07/30/2024 ND 98.2 % 71.5-134 Method Blank Result Reporting Limit 16.0 07/31/2024 ND Method Blank Method Blank Result Reporting Limit Analyzed Method Blank <10.0 10.0 07/30/2024 ND	<0.300 0.300 07/30/2024 ND 98.2 % 71.5-134 mg/ky Analyzed By: AC Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	<0.300 0.7/30/2024 ND 98.2 % 71.5-134 mg/ky Analyzed By: AC Result Reporting Limit Analyzed By: MS % Recovery Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	40.300 0.300 07/30/2024 ND 98.2 % 71.5-134 mg/kg Analyzed By: AC Result Reporting Limit Analyzed ND 448 112 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	<0.300 07/30/2024 ND 98.2 % 71.5-134 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 07/31/2024 ND 448 112 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0 10.0 07/30/2024 ND 194 96.9 200 1.26

Analyzed By: 14

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/30/2024 Reported:

08/02/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 07/30/2024

Sampling Type: Soil

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

Sample ID: SS 04 0.5' (H244524-04)

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	07/30/2024	ND	1.90	95.0	2.00	0.283	
Toluene*	<0.050	0.050	07/30/2024	ND	1.87	93.6	2.00	0.559	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.92	96.2	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.67	94.4	6.00	2.47	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/31/2024	ND	448	112	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	07/30/2024	ND	194	96.9	200	1.26	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	193	96.5	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/30/2024 Reported: 08/02/2024

SAND DUNES SOUTH CORRIDOR CTB

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

ma/ka

Sampling Date: 07/30/2024

Sampling Type: Soil

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

Sample ID: SS 05 0.5' (H244524-05)

RTFY 8021R

B1EX 8021B	mg/	9	Anaryzo	a 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	1.90	95.0	2.00	0.283	
Toluene*	<0.050	0.050	07/30/2024	ND	1.87	93.6	2.00	0.559	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.92	96.2	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.67	94.4	6.00	2.47	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	ND	448	112	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	07/30/2024	ND	194	96.9	200	1.26	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	193	96.5	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Analyzed By: 14

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/30/2024 Sampling Date: 07/30/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 03B1417198 Sample Received By:

Project Location: OXY 32.223643, -103.812787

Sample ID: SS 06 0.5' (H244524-06)

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	07/30/2024	ND	1.90	95.0	2.00	0.283	
Toluene*	<0.050	0.050	07/30/2024	ND	1.87	93.6	2.00	0.559	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.92	96.2	2.00	2.18	
Total Xylenes*	< 0.150	0.150	07/30/2024	ND	5.67	94.4	6.00	2.47	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	16.0	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 %	6 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/30/2024 Reported:

08/02/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 07/30/2024

Sampling Type: Soil

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

Sample ID: SS 07 0.5' (H244524-07)

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	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

		BILL TO	
Project Manager: Beaux Jennings	Hadlie Green	P.O. #:	ANALYSIS REQUEST
Address: 601 N. Marienfeld St. STE 400		pany: Oxy USA	
City: Midland	State: TX Zip: 79701	de Dittrich	
Phone #: 210 219 8858 432-537	7-88-80#:	10	
Project #: 0381417198	Project Owner:	City:	
and c	S South Corridor CTB	State: Zip:	000
Project Location: Jal, NM		# 5	
Sampler Name: Tabithon Gu	Guadian		211
FOR LAB USE ONLY			12
		PRESERV. SAM	sampling ex
Lab I.D. Sample I.D.	Sample Depth (C)OM B OR (C)OM ITAINERS NDWATER EWATER	ASE:	
HESH PER	# CON	OTHER CID/BA CE / CO OTHER	BTO
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X 10 0	1930 V V V
3 5503	10	7.5	0932
4 SS04			0734
5 5565	0.5 611 X	X	0736
0088	0.51 011 8		0790
	0.)	X	0547
malyses. All claims including those for negligence and any other environments around a manufacture of the consequence of successors arising out of or related to the performance of the	e remedy for any claim arising whether ba oever shall be deemed walved unless may ages, including without limitation, business tereunder by Cardinal, regardless of wheth	sed in contract or tort, shall be limited to the amount paid be in writing and received by Cardinal within 30 days after or interruptions, loss of use, or loss of profits incurred by clienter but dain is based upon any of the above.	the client for the implicable this subsidiaries,
1	30/24 Received By:		Verbal Result: ☐ Yes ☐ No Add'I Phone #:
Relinquished By:	Date: Received By:	men	-Blandings@ensolum.com hareen@ ensolum and dozac REMARKS:
Delivered By: (Circle One) Ob:	Observed Temp. *C > Sample Condition	CHECKED BY	
Sampler - UPS - Bus - Other: Cor	1	(Initials)	andard B
FURIM-006 R 3.2 10/0/121		08	ose H



August 26, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES SOUTH CORRIDOR CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/20/24 12:53.

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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

SAND DUNES SOUTH CORRIDOR CTB

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 01 0.5 (H245053-01)

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	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 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	3960	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	115	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	43.2	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Mile Sough



Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

ma/ka

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 02 0.5 (H245053-02)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 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	8000	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	22.4	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Analyzed By: 14

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Me Sough



Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported:

08/26/2024

mg/kg

SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 03 0.5 (H245053-03)

Project Name:

BTEX 8021B

DILX GOZID	mg/kg		Analyzed by: 511						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	< 0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	< 0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	12000	16.0	08/22/2024	ND	432	108	400	3.64	QM-07
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	28.5	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

ma/ka

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 04 0.5 (H245053-04)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	10000	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	216	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	64.5	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Sampling Date: 08/20/2024

Reported: 08/26/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Project Location: OXY 32.223643, -103.812787

Sample ID: CS 05 0.5 (H245053-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 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	12600	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	15.5	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	98.4 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported:

08/26/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 06 0.5 (H245053-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 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	9400	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	11.8	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Sampling Date: 08/20/2024

Reported: 08/26/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: OXY 32.223643, -103.812787

ma/ka

Sample ID: CS 07 0.5 (H245053-07)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 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	5330	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	17.3	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported:

08/26/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: Project Number: 03B1417198

Project Location:

OXY 32.223643, -103.812787

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 08 0.5 (H245053-08)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 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	3200	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	48.5	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	18.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 09 0.5 (H245053-09)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	9200	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Sampling Date: 08/20/2024

Reported: 08/26/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: OXY 32.223643, -103.812787

mg/kg

Sample ID: CS 10 0.5 (H245053-10)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 % 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	10700	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	220	110	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

08/26/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

ma/ka

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 11 0.5 (H245053-11)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	3760	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	220	110	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					
Surrogate: 1-Chlorooctane	70.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

08/26/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

ma/ka

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 12 0.5 (H245053-12)

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	08/21/2024	ND	2.18	109	2.00	5.63	
Toluene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	5.93	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.08	104	2.00	6.47	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.15	103	6.00	6.32	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 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	848	16.0	08/22/2024	ND	432	108	400	3.64	
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	08/22/2024	ND	220	110	200	2.01	
DRO >C10-C28*	18.4	10.0	08/22/2024	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

ma/ka

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 13 0.5 (H245053-13)

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	08/21/2024	ND	2.02	101	2.00	0.745	
Toluene*	<0.050	0.050	08/21/2024	ND	2.10	105	2.00	0.614	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.14	107	2.00	0.326	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.66	111	6.00	0.244	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	2400	16.0	08/22/2024	ND	432	108	400	3.64	
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	08/21/2024	ND	239	120	200	1.67	
DRO >C10-C28*	34.4	10.0	08/21/2024	ND	229	114	200	2.64	
EXT DRO >C28-C36	12.2	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

08/26/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

ma/ka

Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 14 0.5 (H245053-14)

Project Name:

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	08/21/2024	ND	2.02	101	2.00	0.745	
Toluene*	<0.050	0.050	08/21/2024	ND	2.10	105	2.00	0.614	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.14	107	2.00	0.326	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.66	111	6.00	0.244	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	3640	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	239	120	200	1.67	
DRO >C10-C28*	3940	10.0	08/21/2024	ND	229	114	200	2.64	
EXT DRO >C28-C36	1040	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	152	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 15 0.5 (H245053-15)

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	08/21/2024	ND	2.02	101	2.00	0.745	
Toluene*	<0.050	0.050	08/21/2024	ND	2.10	105	2.00	0.614	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.14	107	2.00	0.326	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.66	111	6.00	0.244	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	1280	16.0	08/22/2024	ND	432	108	400	3.64	
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	08/21/2024	ND	239	120	200	1.67	
DRO >C10-C28*	40.8	10.0	08/21/2024	ND	229	114	200	2.64	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported:

08/26/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 16 0.5 (H245053-16)

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	08/21/2024	ND	2.02	101	2.00	0.745	
Toluene*	<0.050	0.050	08/21/2024	ND	2.10	105	2.00	0.614	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.14	107	2.00	0.326	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.66	111	6.00	0.244	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	224	16.0	08/22/2024	ND	432	108	400	3.64	
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	08/21/2024	ND	239	120	200	1.67	
DRO >C10-C28*	45.5	10.0	08/21/2024	ND	229	114	200	2.64	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 17 0.5 (H245053-17)

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	08/22/2024	ND	2.02	101	2.00	0.745	
Toluene*	<0.050	0.050	08/22/2024	ND	2.10	105	2.00	0.614	
Ethylbenzene*	< 0.050	0.050	08/22/2024	ND	2.14	107	2.00	0.326	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.66	111	6.00	0.244	
Total BTEX	<0.300	0.300	08/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	256	16.0	08/22/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2024	ND	239	120	200	1.67	
DRO >C10-C28*	1810	10.0	08/21/2024	ND	229	114	200	2.64	
EXT DRO >C28-C36	1030	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	164 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC **KELLY LOWERY** 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 08/20/2024 Reported: 08/26/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 08/20/2024

Sampling Type: Soil

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

Sample ID: CS 18 0.5 (H245053-18)

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	08/21/2024	ND	2.02	101	2.00	0.745	
Toluene*	<0.050	0.050	08/21/2024	ND	2.10	105	2.00	0.614	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.14	107	2.00	0.326	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.66	111	6.00	0.244	
Total BTEX	<0.300	0.300	08/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	5860	16.0	08/22/2024	ND	432	108	400	3.64	
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	08/21/2024	ND	239	120	200	1.67	
DRO >C10-C28*	2220	10.0	08/21/2024	ND	229	114	200	2.64	
EXT DRO >C28-C36	1300	10.0	08/21/2024	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC	LC		2011					-		
			DILL IO			ANA	ANALTSIS	KEQUESI		
Project Manager: Beaux Jennings	nings		P.O. #:							
Address: 601 N. Marienfeld St. STE 400	St. STE 400		Company: OXY USA			_		_		
and	State: TX Zip: 79701		Attn: Wade Dittrich							
Phone #: (210)219-8858	Email:bjer	Email:bjennings@ensolum.com	Address:				_	_		
Project #: (9 3/5/4/7	1998 Project Owner:		City:							
Project Name: "Sayo	Dunes South G	Bridge CTS	State: Zip:							
Project Location:			Phone #:		_	00	_			
Sampler Name: Kaoru Shimada	ada		Email:	В	-	150	_			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		_	9 4		_		1
Table Samp	Sample Depth	RS	/				u 			
1345053	(feet)	(G)RAB OR (# CONTAINE GROUNDWA WASTEWATI SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX	TPH	Chlo	11010			
(2)	5,0	8	X Q-70-W	2/6/2	7	×	+			
Q - 55 A	2	4	7	11 216	7	7	_			
3 5	93			918						
4 550	O4			918 11			_			
5 cs @	75			919						
6 50	26			9 1						
7 50	77			920 1			_			
S cs	80			470						
9 6	39			971 1	7	_	_			
10 (5)	0 0.5	×		922 X	7	x	-			
All claims including those for negligence and any other cause whatosev he no event shall Cardinal be liable for incidental or consequental damaging affiliates or successors arising out of or reliated to the performance of section affiliates or successors arising out of or reliated to the performance of sections.	er shall be di pes, including vices hereun	y own early wester passes trained to contract or both, seem to sentence passes yield contribute an establishment of the sentence of the senten	non to me amount part by the client for the analyses. Cerdinal within 30 days after completion of the applicable s or loss of profils incurred by client, its subsidiaries, sand upon arry of the above stated rescorts or otherwise	arvice.						
Relinquished By:	Date	Received By:		Verbal Result:	S W No	lo Frovida E	Add'l	Add'l Phone #:		
Kapru Shimada	11 TIME (253)	10018	1 and M	bjennings@ensolum.com, smackenzie	n, smacke	nzie@ens	@ensolum.com			
Ву:	Date:	Received By:	R	REMARKS: Paykey/AFE/NonAFE:	E/NonAF	iù				
	Time:									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact	CHECKED BY:	Turnaround Time: Standard Rush Cool Intact	Observ	Bacteria (only) Observed Temp. °C	Bacteria (only) Sample Condition ed Temp. "C	tion		
	~ ^ ·		2	nometer ID	#		5	Yes Yes		
	C	(9	Correction Factor 4.5°C	0	2.00.0	1		Corrected Temp. *C	

FORM-006 R 3.2 10/07/21



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							BIL	BILL TO					NAL	SIS	ANALYSIS REQUEST	EST					
Project Manager: Beaux Jennings	Beaux Jennings						P.O. #:].						
Address: 601 N.	601 N. Marienfeld St. STE 400						Comp	any: O	Company: OXY USA													
2	State: TX	Zip: 79701					Attn: V	Attn: Wade Dittrich	ittrich													
Phone #: (210)219-8858	9-8858	Email:bjennings@ensolum.com	nnings	@enso	um.cor		Address:	SS:														
Project #: 035/4	1198	Project Owner:					City:															
Project Name: Sov	and Danes	South	Corr	3	100	P	State:		Zip:												177	
Project Location:					-		Phone #:	*					00									
Sampler Name: Kaoru Shimada	oru Shimada						Email:				В	VI	50									
FOR LAB USE ONLY			·.	П	MATRIX		PRE	PRESERV.	SAMPLING	ING	21	51	4									
Lab I.D.	Sample I.D.	Sample Depth			ATEK		Ξ:	1			X 802	1 801	oride	ld								
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in no event shall Cardinal be liab affiliates or successors arising ou	** vuents accounts areas for regyperce and any other class whatsower shall be defended waveful release made in writing and received by Cardinal within 30 days after competition of the applicable service. In no event shall Cardinal be liable for included or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white expirit expiri	ver shall be deemed walved unless ges, including without limitation, bu irvices hereunder by Cardinal, rega	made in wri siness intern rdless of why	ting and reco uptions, loss ether such o	aim is base	dinal within iss of profits d upon any of	30 days aft incurred by	er completion of the stated read the stated read to the stated read the stated	on of the applicable subsidiaries, asons or otherwise.	service.		,										
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



November 13, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES SOUTH CORRIDOR CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 14:10.

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: 11/07/2024 Reported: 11/13/2024

SAND DUNES SOUTH CORRIDOR CTB

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

Sampling Date: 11/04/2024

Sampling Type: Soil

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

Sample ID: FS 03 1' (H246799-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/11/2024	ND	416	104	400	3.77	
Sample ID: FS 04 1' (H246	5799-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/11/2024	ND	416	104	400	3.77	
Sample ID: FS 05 1' (H246	5799-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/11/2024	ND	416	104	400	3.77	
Sample ID: FS 10 1' (H246	5799-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Sample Received By:

11/04/2024

Tamara Oldaker

Analytical Results For:

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

Received: 11/07/2024 Sampling Date:

Reported: 11/13/2024 Sampling Type: Soil
Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

Sample ID: FS 14 1' (H246799-05)

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	172	86.2	200	15.9	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	183	91.4	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	130	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

Sample ID: FS 17 1' (H246799-06)

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	172	86.2	200	15.9	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	183	91.4	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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11/04/2024

Analytical Results For:

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

Received: 11/07/2024 Sampling Date:

Reported: 11/13/2024 Sampling Type: Soil

Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Tamara Oldaker

Project Location: OXY 32.223643, -103.812787

Sample ID: FS 18 1' (H246799-07)

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	11/08/2024	ND	172	86.2	200	15.9	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	183	91.4	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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11/04/2024

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

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

Received: 11/07/2024 Sampling Date:

Reported: 11/13/2024 Sampling Type:
Project Name: SAND DUNES SOUTH CORRIDOR CTB Sampling Condition:

Project Number: 03B1417198 Sample Received By:

Project Location: OXY 32.223643, -103.812787

Sample ID: SW 01 0-1' (H246799-08)

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	11/10/2024	ND	2.09	104	2.00	5.53	
Toluene*	<0.050	0.050	11/10/2024	ND	1.99	99.3	2.00	5.30	
Ethylbenzene*	<0.050	0.050	11/10/2024	ND	1.98	99.1	2.00	4.93	
Total Xylenes*	<0.150	0.150	11/10/2024	ND	5.87	97.9	6.00	4.88	
Total BTEX	<0.300	0.300	11/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 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	192	16.0	11/11/2024	ND	416	104	400	3.77	
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	11/11/2024	ND	172	86.2	200	15.9	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	183	91.4	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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11/04/2024

Tamara Oldaker

Analytical Results For:

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

Received: 11/07/2024 Reported:

11/13/2024 Sampling Type: Soil Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Name: SAND DUNES SOUTH CORRIDOR CTB Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787

136 %

49.1-148

Sample ID: SW 02 0-1' (H246799-09)

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	11/10/2024	ND	2.09	104	2.00	5.53	
Toluene*	<0.050	0.050	11/10/2024	ND	1.99	99.3	2.00	5.30	
Ethylbenzene*	<0.050	0.050	11/10/2024	ND	1.98	99.1	2.00	4.93	
Total Xylenes*	<0.150	0.150	11/10/2024	ND	5.87	97.9	6.00	4.88	
Total BTEX	<0.300	0.300	11/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 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	192	16.0	11/11/2024	ND	416	104	400	3.77	
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	172	86.2	200	15.9	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	183	91.4	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	130	% 48.2-13	4						

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Celeg D. Keine

Surrogate: 1-Chlorooctadecane



Analytical Results For:

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

Received: 11/07/2024 Reported:

11/13/2024 SAND DUNES SOUTH CORRIDOR CTB

Project Name: Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 11/04/2024

Sampling Type: Soil

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

Sample ID: SW 03 0-1' (H246799-10)

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	11/10/2024	ND	2.09	104	2.00	5.53	
Toluene*	<0.050	0.050	11/10/2024	ND	1.99	99.3	2.00	5.30	
Ethylbenzene*	<0.050	0.050	11/10/2024	ND	1.98	99.1	2.00	4.93	
Total Xylenes*	<0.150	0.150	11/10/2024	ND	5.87	97.9	6.00	4.88	
Total BTEX	<0.300	0.300	11/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 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	208	16.0	11/11/2024	ND	416	104	400	3.77	
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	172	86.2	200	15.9	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	183	91.4	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	127 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 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: 11/07/2024 Reported: 11/13/2024

Project Name: SAND DUNES SOUTH CORRIDOR CTB

Project Number: 03B1417198

Project Location: OXY 32.223643, -103.812787 Sampling Date: 11/04/2024

Sampling Type: Soil

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

Sample ID: SW 04 0-1' (H246799-11)

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	11/10/2024	ND	2.09	104	2.00	5.53	
Toluene*	<0.050	0.050	11/10/2024	ND	1.99	99.3	2.00	5.30	
Ethylbenzene*	<0.050	0.050	11/10/2024	ND	1.98	99.1	2.00	4.93	
Total Xylenes*	<0.150	0.150	11/10/2024	ND	5.87	97.9	6.00	4.88	
Total BTEX	<0.300	0.300	11/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	160	16.0	11/11/2024	ND	416	104	400	3.77	
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	172	86.2	200	15.9	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	183	91.4	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	129 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum 11C				
Delivery manifer Electricity L		BILL TO	1	ANALYSIS REQUEST
Tojou managen and actimination	golf Samantha Mackenzie	P.O. #:		
Address: 601 N Marienfeld Street, Suite 400	reet, Suite 400	Company: Oxy USA Inc.	ė,	
City: Midland	State: TX Zip: 79701	Attn: Wade Dittrich		
Phone #: 210-219-8858	Fax #:	Address:		
Project #: 0381417198	Project Owner:	City:		
Project Name: Sound Dunes	202	State: Zip:	00	
Project Location: Eddy (040	#: 575	572	
2	Guadian	Fax #:		
FOR LAB USE ONLY	MATRIX		Z	
	R		80	
Lab I.D. Sample I.D.	I.D. (feet) Depth (C) (TAINERS JNDWATE TEWATER	R: BASE:	EX PH hlori	
H246745	# CO GRO		B'	
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EASE NOTE: Liability and Damages. Cardinal's lial alyses. All claims including those for negligence and the liable for incident the liable for inciden	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable price. In no event shall Cardinal to liable for including analysis of the applicable price.	tract or tort, shall be limited to the amount paid b g and received by Cardinal within 30 days after o	y the client for the ompletion of the applicable	
Relinquished By:	erformance of services hereunder by Cardinal, regardless of whether such cl Received By:	h claim is based upon any of the above stated reason.	III. II Vos II No	
1	~	Þ	emailed. Please provi	de Email address:
Reknauished By:			Smackenzie @ ensolum.com	1. COM
	Timesta Vacanadas		REMARKS:	
Delivered By: (Circle One)	Observed Temp. *C 3 Sample Condition	снескер ву:	Turnaround Time: Standard	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	بو بھات	Initials	Thermometer ID #449	☐ Cool Intact Observed Temp. °C
FURM-008 R 3.2 10/07/21			Collection Lactor -0.5 C	☐ No ☐ No Corrected Temp. °C

Relinduished By:

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

Corrected Temp.

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CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ensolum, LLC				811	BILL TO			ANALYSIS REQUEST	UEST
Project Manager:	r: Beaux Jennings TG Samontha Markenzit	Samonth	7	lar Kenzir	P.O. #:					
Address: 601	601 N. Marienfeld St. STE 400	400			Company: 0	Oxy USA, Inc.				
City: Midland		State: TX	Zip:	79701		Dittrich				
Phone #: 210-219-8858	219-8858	Fax #:			Address:					
Project #: 031	Project #: 03B1417198	Project Owner:			City:			0		
Project Name: S	Project Name: Sound Dunes South Corridor	south Cor	Did	or CTB		Zip:		a		
Project Location	Project Location: Eddy County	Y			Phone #: 57	575-390-2828		45		
Sampler Name:	Tabitha Gu	Guadian			Fax #:					
FOR LAB USE ONLY	-		4	MATRIX	PRESERV	SAMPLING		S		
Lab I.D.	Sample I.D.	Sample Depth (feet))RAB OR (C)OMP.	ROUNDWATER ASTEWATER DIL L UDGE	THER: CID/BASE: E / COOL THER:		STEX 801	hloride		
11	HOMS	0-1'	0		×	11/4/24 11/8	*	X		
				45	174					TAVG
	NFE									

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

(Initials)

Turnaround Time:

Standard

Cool Intact

Corrected Temp. °C

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

REMARKS:

Verbal Result: ☐ Yes ☐ No Add'I Phone #:
All Results are emailed. Please provide Email address:

16

Smackenzie @ensolum.com



September 25, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RAMIREZ & SONS CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/20/24 13:03.

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 KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/20/2024 Reported: 09/25/2024

RAMIREZ & SONS CALICHE PIT

Project Number: 03B1417168

Project Name:

Project Location: OXY - LEA COUNTY, NM

Sampling Date: 09/19/2024

Sampling Type: Soil

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

Sample ID: RAMIREZ & SONS CALICHE PIT (H245739-01)

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	09/23/2024	ND	1.94	96.9	2.00	9.04	
Toluene*	<0.050	0.050	09/23/2024	ND	1.92	95.9	2.00	8.44	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	1.99	99.4	2.00	7.64	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	5.95	99.2	6.00	7.49	
Total BTEX	<0.300	0.300	09/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	96.0	16.0	09/23/2024	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	09/20/2024	ND	220	110	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Frene



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company					
Project Manager: Kelly Lowery	lly Lowery		P.O. #:		
601 N. Ma	601 N. Marienfeld St. STE 400		any: Ensoum	COA, Linc	
City: Midland	State: TX Zip:	79701	Atm: Made Dittory	_	
Phone #: 214-733-3165	3165	Email: klowery@ensolum.com	Address:		
03814	17/68 Pro	Project Owner:		2	
ime:	7/1	Colitable Pit	calc 300	В	
n.	MI HANG	H	Fmoil: 5+5 570 4040	I M	
Sampler Name:	- Charle			5	_
OR LABUSE ONLY	L'All Conso	n MATRIX	PRESERV. SAMPLING	301	
Lab I.D.	Sample I.D.	(feet) Depth S)RAB OR (C)OM CONTAINERS ROUNDWATER WASTEWATER OIL SILUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	BTEX TPH 8 Chlori	
1 R	Remarcz + Sons Cal whe	CAT NA CI	X 7/11/27 11	>	
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			111111111111111111111111111111111111111	R	
			and to the stand for the angivests.		
PLEASE NOTE: Liability and Dams. All claims including those for ne	ages. Cardinal's liability and client's exclusivegiligence and any other cause whatsoo	REASE HOTE: Liability and Damages. Curdinal's labelity and dearft succlasive wineshy for any date moting whether tested in contract or for, and all behavior to an amount passing we were now an experiment of the applicable service. All claims including those for negligations and any other cause whistoever that like determed varieties made in writing and received by Cardinal within 50 kings after completions of the applicable service. All claims including those for negligations and any other cause whistoevers that like determed varieties made in writing and received by Cardinal within 50 kings after completions of the service and	a amount page by use deem no not only a service at within 30 days after completion of the applicable service of profits incurred by client, its subsidiaries, of profits incurred by client, its subsidiaries.	8	100
affiliates or successors arising or Relinquished By:	lades or successors arising out of or related to the performance of se- elinguished By:	Date: 0/1/c/24 Received By:		Verbal Result: ☐ Yes ☐ No [Add'i Pr All Results are emailed. Please provide Email address klowery@ensolum.com / rhdunaway@aprod.co m k///	او Add" Phone #: provide Email address: www.@عهممه إحداد
Relinquished By:		36	Market Market	REMARKS: Paykey/AFE/NonAFE:	
Carola	Made		CHECKED BY:	Turnaround Time: Standard M Bacteria (only)	Bacteria (only) Sample Condition
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Corrected Temp. °C 5,0 Corrected Temp. °C 5,1 Cool Affact Cool Affact Cool Mac Xva	(Initials)	Cool Intact	Yes Yes No Corrected Temp. 10
FORM-006	FORM-006 R 3.2 10/07/21	+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	lease email changes to celey.kee		42624

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

QUESTIONS

Action 421812

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2225058146
Incident Name	NAPP2225058146 SAND DUNES SOUTH CORRIDOR CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2127048458] Sand Dunes South Corridor CTB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAND DUNES SOUTH CORRIDOR CTB
Date Release Discovered	08/15/2022
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

aterial(s) released, please answer all that apply below. Any calculations or specific justification	s for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 30 BBL Recovered: 10 BBL Lost: 20 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 421812

Garita	1 3, 1411 37 333
QUESTI	ONS (continued)
Operator: OXY USA INC	OGRID: 16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Danness	
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	party harved that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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 releathe 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

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 421812

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	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 51 and 75 (ft.)	
What method was used to determine the depth to ground water	U.S. Geological Survey	
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 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)	
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between ½ and 1 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions ti	hat apply or are indicated. This information must be provided t	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 de	monstrating the lateral and vertical extents of soil contamination	ion 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	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in n	milligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	12600
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	4980
GRO+DRO	(EPA SW-846 Method 8015M)	3940
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes complete the state of the sta	ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date wi	III the remediation commence	06/24/2024
On what date will (or did) to	he final sampling or liner inspection occur	11/04/2024
On what date will (or was)	the remediation complete(d)	11/04/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	3246
What is the estimated volu	me (in cubic yards) that will be reclaimed	74
What is the estimated surfa	ace area (in square feet) that will be remediated	3246
What is the estimated volu	me (in cubic yards) that will be remediated	74
These estimated dates and measu	rements are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that propose	ed 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: 1/22/2025 9:10:31 AM

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 4

Action 421812

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	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.)		
Yes		
R360 ARTESIA LLC LANDFARM [fEEM0112340644]		
Not answered.		

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: 01/16/2025

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.

Phone: (505) 629-6116

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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 421812

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	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

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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 6

Action 421812

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	397620	
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	10	
What was the sampling surface area in square feet	3772	

Only answer the questions in this group if seeking remediation closure for this release because all re	T .
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	3246
What was the total volume (cubic yards) remediated	74
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	3246
What was the total volume (in cubic yards) reclaimed	74
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: 01/16/2025
--	--

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

General Information Phone: (505) 629-6116

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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 7

Action 421812

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	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

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

CONDITIONS

Action 421812

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421812
	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.	1/22/2025
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.	1/22/2025
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.	1/22/2025
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.	1/22/2025