



July 19, 2023

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
Mesa B West – Burned Water Transfer Poly Line
Incident Number nAPP2303737335
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Mesa B West – Burned Water Transfer Poly Line (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil resulting from a produced water release at the Site. Based on field screening activities, excavation activities, and laboratory analytical results from soil sampling events, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting no further action for Incident Number nAPP2303737335.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 7, Township 26 South, Range 33 East, in Lea County, New Mexico (32.06221°, -103.61441°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On February 5, 2023, a gas feed line ruptured and caused a fire that burned an adjacent 8-inch water transfer line, resulting in the release of approximately 56 barrels (bbls) of produced water into the surrounding right-of-way (ROW) and pasture area. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 1 bbl of produced water was recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) immediately via the NMOCD permitting website and submitted a *Release Notification Form C-141* (Form C-141) on February 14, 2023. The release was assigned Incident Number nAPP2303737335.

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 desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is New Mexico Office of the State Engineer (NMOSE) soil boring C-04547, drilled approximately 0.8 miles southeast of the Site. The soil boring has a reported depth to groundwater of

BTA Oil Producers, LLC
Closure Request
Mesa B West – Burned Water Transfer Poly Line

89.5 feet bgs and a total depth of 112 feet bgs. The soil boring was subsequently plugged following approved NMOSE methods. In addition, NMOSE documents three wells, C-04485-POD 1, C-04549, and C-04537, located approximately 1 mile to 1.4 miles to the north, west, and south of the Site, respectively, all indicating regional depth to groundwater is between 51 feet and 100 feet bgs. Multiple data point exist around the Site and there are no surface features indicative of the presence of shallow groundwater. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 385 feet west 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 (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between March 8 and March 10, 2023, Ensolum personnel were at the Site to complete assessment and delineation activities based on visible staining in the release area and information provided by the Form C-141. Delineation soil Samples SS01 through SS06 were collected around the release extent, at a depth of 0.5 feet bgs, to confirm the lateral extent of the release. Eleven boreholes (BH01 through BH11) were advanced via hand auger within the release extent. The boreholes were advanced to total depths ranging from 1-foot to 5.5 feet bgs. Discrete delineation soil samples were collected from each borehole at depths ranging from 0.5 feet to 5.5 feet bgs. 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. Visual observations and field screenings were logged on Lithologic Soil Sampling Logs which are included in Appendix B. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during Site assessment and a photographic log is included in 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 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

BTA Oil Producers, LLC
Closure Request
Mesa B West – Burned Water Transfer Poly Line

Protection Agency (EPA) Method 8021B; TPH- GRO and TPH- DRO , and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.0.

Laboratory analytical results for delineation soil samples SS01 through SS06 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for boreholes BH01, BH03, and BH04, advanced within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results for the delineation soil samples collected from boreholes BH02 and BH05 through BH11, advanced within the release extent, indicated chloride concentrations exceeding the reclamation requirement in the top 4 feet. Only borehole BH08, collected at 0.5 feet bgs and located in an area where the release pooled, contained chloride concentrations exceeding the applicable Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D. Based on laboratory analytical results for soil samples BH02 and BH05 through BH11, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between April 10 and May 3, 2023, Ensolum personnel were at the Site to oversee excavation activities based on visible staining and laboratory analytical results for soil samples BH02 and BH05 through BH11. Excavation activities were performed utilizing hand shovels, hydrovac, and backhoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of impacted and waste-containing soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation 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. Composite soil samples FS01 through FS44 were collected from the floor of the excavation at depths ranging from 1-foot to 3 feet bgs. In areas where the excavation remained at 1-foot bgs, the sidewalls were incorporated into the composite floor samples. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for the excavation soil samples FS01 through FS44, SW01, and SW02 indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The excavation area completed to a depth of 1-foot bgs measured approximately 7,900 square feet. The excavation area completed at depths ranging from 1.5 feet to 3 feet bgs measured approximately 900 square feet. A total of 978 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the OWL Landfill Services, LLC in Jal, New Mexico.

BTA Oil Producers, LLC
Closure Request
Mesa B West – Burned Water Transfer Poly Line

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 5, 2023, produced water release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Closure Criteria and reclamation requirement, where applicable. Based on the soil sample analytical results, no further remediation was required. Excavation of stained soil has mitigated impacts at this Site. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2303737335. Following approval of the Closure Request, BTA will backfill the excavation and reseed the pasture and ROW area during the subsequent conducive planting season.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Daniel R. Moir, PG
Senior Managing Geologist

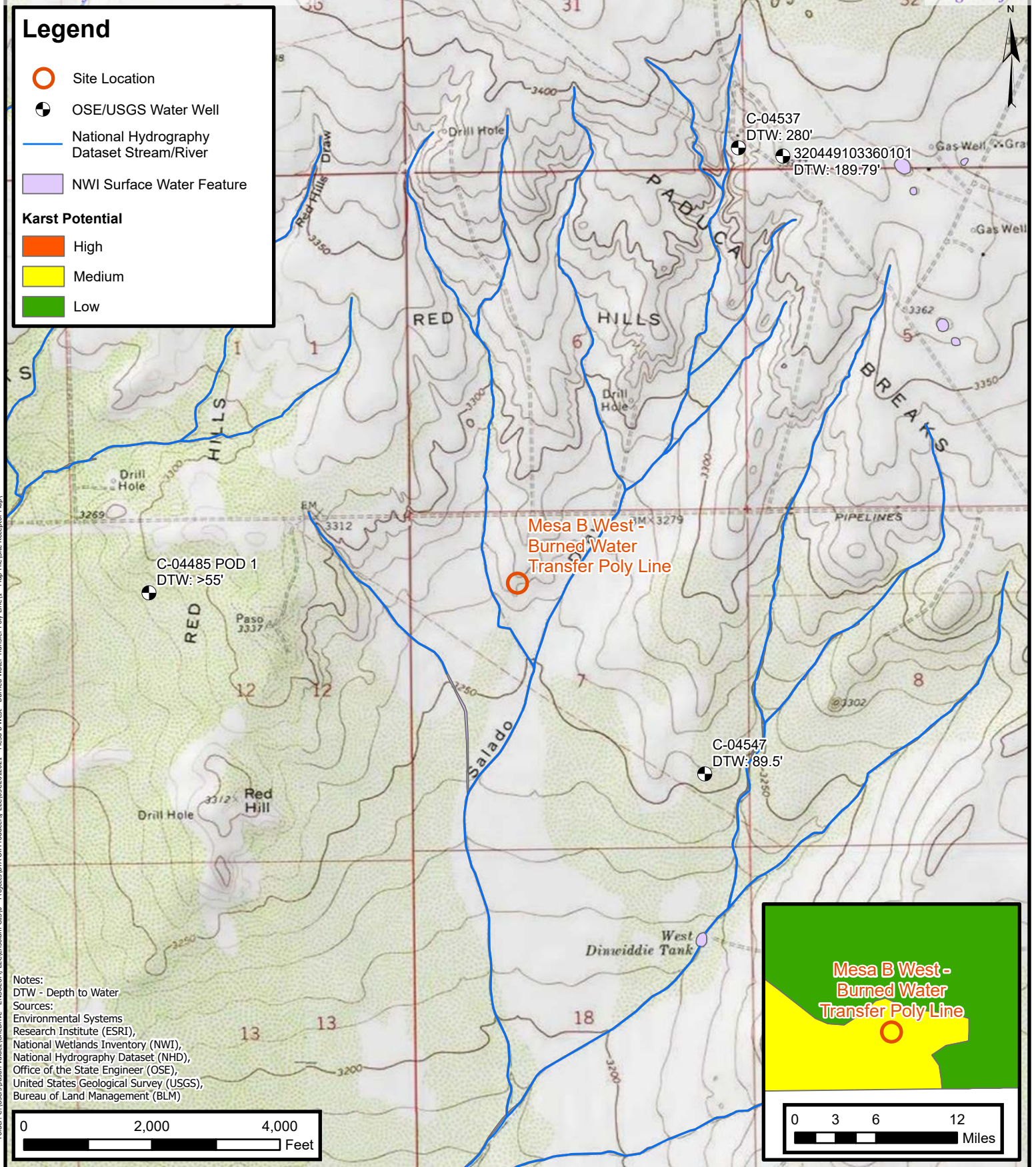
cc: Kelton Beaird, BTA
Nathan Sirgo, BTA
Bureau of Land Management

Appendices:

| | |
|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Figure 3 | Excavation Soil Sample Locations |
| 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 |
| Appendix E | NMOCD Notifications |
| Appendix F | Final C-141 |



FIGURES



Site Receptor Map

BTA Oil Producers, LLC
Mesa B West - Burned Water Transfer Poly Line
Incident Number: nAPP2303737335
Unit C, Sec 7, T26S R33E
Lea County, New Mexico

FIGURE

1

Legend

- ▲ Point of Release (POR)
- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Pipeline/Line/Utility
- Release Extent



Delineation Soil Sample Locations

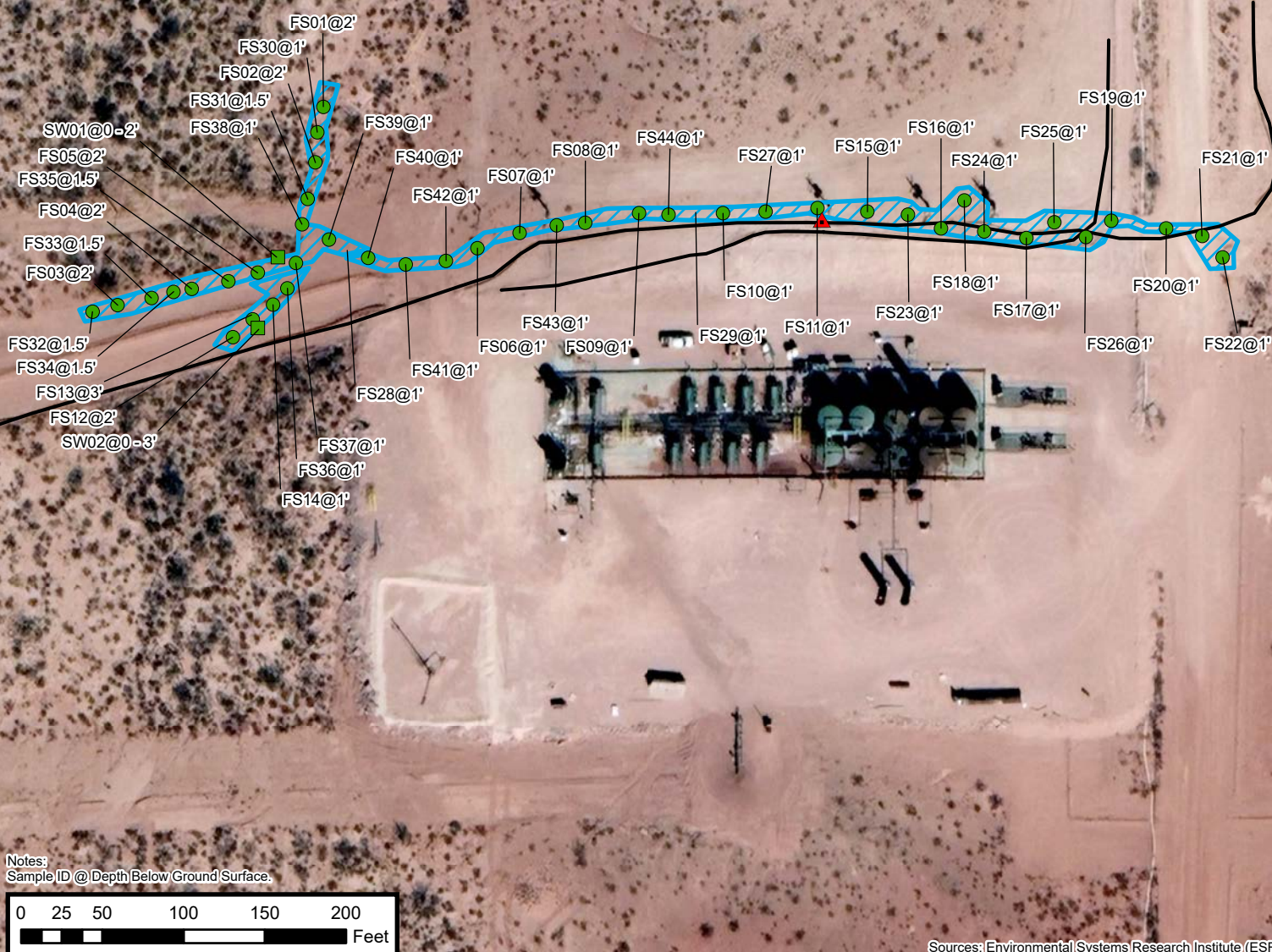
BTA Oil Producers, LLC
 Mesa B West - Burned Water Transfer Poly Line
 Incident Number: nAPP2303737335
 Unit C, Sec 7, T26S R33E
 Lea County, New Mexico

FIGURE

2

Legend

- ▲ Point of Release (POR)
- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Pipeline/Line/Utility
- ▨ Excavation Extent

**Excavation Soil Sample Locations**

BTA Oil Producers, LLC
 Mesa B West - Burned Water Transfer Poly Line
 Incident Number: nAPP2303737335
 Unit C, Sec 7, T26S R33E
 Lea County, New Mexico

FIGURE**3**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa B West - Burned Water Transfer Poly Line
BTA Oil Producers, LLC
Lea County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01* | 03/10/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SS02* | 03/10/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SS03 | 03/10/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SS04 | 03/10/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 240 |
| SS05* | 03/10/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| SS06* | 03/10/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| BH01* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| BH01A* | 03/08/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| BH02* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,920 |
| BH02A* | 03/08/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 336 |
| BH03* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 128 |
| BH03A* | 03/08/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| BH04* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| BH04A* | 03/08/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| BH05* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,620 |
| BH05A* | 03/09/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| BH06* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,960 |
| BH06A* | 03/10/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 624 |
| BH07* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,970 |
| BH07A* | 03/10/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa B West - Burned Water Transfer Poly Line
BTA Oil Producers, LLC
Lea County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| BH08* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | 1,130 | 230 | 1,130 | 1,360 | 10,600 |
| BH08A* | 03/10/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 3,920 |
| BH08B | 03/10/2023 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 192 |
| BH09* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 2,840 |
| BH09A* | 03/10/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 432 |
| BH10* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 3,400 |
| BH10A* | 03/10/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 |
| BH11* | 03/08/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 6,880 |
| BH11A | 03/10/2023 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 592 |
| BH11B | 03/10/2023 | 5.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| Excavation Floor Soil Samples | | | | | | | | | | |
| FS01* | 04/10/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| FS02* | 04/10/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 272 |
| FS03* | 04/10/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| FS04* | 04/10/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 |
| FS05* | 04/10/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| FS06* | 04/17/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 320 |
| FS07* | 04/17/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 128 |
| FS08* | 04/17/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 128 |
| FS09* | 04/17/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 240 |
| FS10* | 04/17/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| FS11* | 04/17/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 336 |
| FS12* | 04/18/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 224 |
| FS13* | 04/18/2023 | 3 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 320 |
| FS14* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| FS15* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 |



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa B West - Burned Water Transfer Poly Line
BTA Oil Producers, LLC
Lea County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| FS16* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 192 |
| FS17* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 320 |
| FS18* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 256 |
| FS19* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 224 |
| FS20* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 304 |
| FS21* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| FS22* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| FS23* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| FS24* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 224 |
| FS25* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| FS26* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| FS27* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| FS28* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 176 |
| FS29* | 05/01/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 256 |
| FS30* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 368 |
| FS31* | 05/03/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| FS32* | 05/03/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| FS33* | 05/03/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| FS34* | 05/03/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| FS35* | 05/03/2023 | 1.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| FS36* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| FS37* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa B West - Burned Water Transfer Poly Line
BTA Oil Producers, LLC
Lea County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| FS38* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| FS39* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| FS40* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| FS41* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| FS42* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| FS43* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 112 |
| FS44* | 05/03/2023 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| Excavation Sidewall Soil Samples | | | | | | | | | | |
| SW01* | 04/18/2023 | 0 - 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 288 |
| SW02* | 05/03/2023 | 0 - 3 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 112 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicates sample was excavated

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg, reclamation standard for TPH in the top 4 feet is 100 mg/kg



APPENDIX A

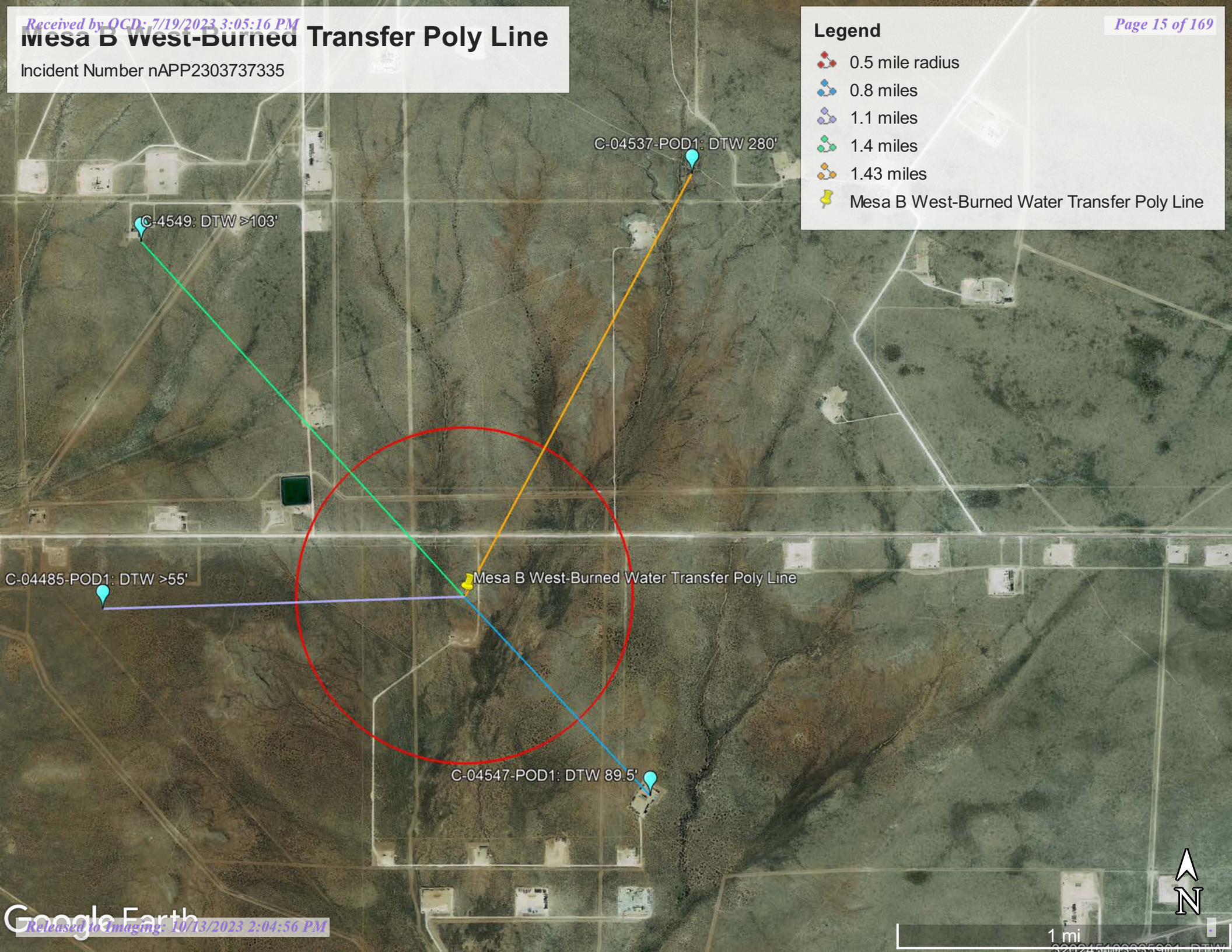
Referenced Well Records

Mesa B West-Burned Transfer Poly Line

Incident Number nAPP2303737335

Legend

- 0.5 mile radius
- 0.8 miles
- 1.1 miles
- 1.4 miles
- 1.43 miles
- Mesa B West-Burned Water Transfer Poly Line





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DTI AUG 2 2021 PM4:44

| | | | | | | | | |
|---|---|---------------------|--|---|---|--|---|--------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (MW-1) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4547 | | | |
| | WELL OWNER NAME(S) BTA Oil Producers | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS 104 S. Pecos St. | | | | CITY Midland | STATE TX | ZIP 79701 | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE | MINUTES 32 | SECONDS 3 | 14.34 | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | | LONGITUDE | 103 | 36 | 16.96 | * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE SE Sec. 07 T26S R33E | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 07/15/2021 | | DRILLING ENDED 07/15/2021 | | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) 112 | DEPTH WATER FIRST ENCOUNTERED (FT) unknown | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) 89.5 | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 21 | ±8.5 | Boring- HSA | -- | -- | -- | -- |
| | 21 | 112 | ±3.5 | Boring- Air Rotary | -- | -- | -- | -- |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

| | | |
|----------------------------|------------------|---------------------------|
| FILE NO. <u>C-4547</u> | POD NO. <u>1</u> | TRN NO. <u>698291</u> |
| LOCATION <u>26S-33E-07</u> | <u>4-4-2</u> | WELL TAG ID NO. <u>NA</u> |

PAGE 1 OF 2

DSE DTI AUG 2 2021 PM4:44

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|------------------|-----|------------------|--|-----------------------------------|---|
| | FROM | TO | | | | |
| | 0 | 4 | 4 | Caliche, Consolidated, White | Y ✓ N | |
| | 4 | 44 | 40 | Sand, Fine-grained, poorly graded, with caliche gravel, Redish Brown | Y ✓ N | |
| | 44 | 51 | 7 | Clay, Stiff, Dark Brown, | Y ✓ N | |
| | 51 | 103 | 52 | Sandstone, Fine-grained, poorly graded, Tan Brown | ✓ Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): | |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | 0.00 | |

| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
|--------------------------|--|---|
| | MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring plugged using tremie pipe to total depth and landed cement slurry of <6.0 gallons of water per 94 lbs sack of Portland TYPE I/II Neat Cement. See attached Plugging Record | |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Carmelo Trevino | |

| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: | DATE |
|--------------|---|------------|
| | Jackie D. Atkins | 07/29/2021 |
| | SIGNATURE OF DRILLER / PRINT SIGNEE NAME | DATE |

| | | | |
|---------------------------|--------------------|--|--|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 06/30/2017) | |
| FILE NO. C-4547 | POD NO. 1 | TRN NO. | |
| LOCATION 26S-33E-07 4-4-2 | WELL TAG ID NO. NA | PAGE 2 OF 2 | |

2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1-for sign

Final Audit Report

2021-07-29

Created: 2021-07-29






OSE DJT AUG 2 2021 PM4:44

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAA3aQOFUKeCXoHbozKpK1XeoMdl53lwclm

"2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1-for sign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-07-29 - 8:40:54 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-07-29 - 8:41:43 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-07-29 - 8:43:29 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-07-29 - 8:44:00 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2021-07-29 - 8:44:00 PM GMT



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

| | | | | | | |
|---|-----------|---------|-----------------------|---|--|--|
| OSE POD NO. (WELL NO.) C-04485 | | OWL 362 | WELL TAG ID NO. NA | | OSE FILE NO(S). C-04485 | |
| WELL OWNER NAME(S) KJ ENVIRONMENTAL | | | | | PHONE (OPTIONAL) 214-287-5875 | |
| WELL OWNER MAILING ADDRESS 500 MOSSELEY ROAD | | | | | CITY CROSS ROADS | STATE TX ZIP 76227 |
| WELL LOCATION (FROM GPS) | DEGREES | MINUTES | SECONDS | N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 | |
| | LATITUDE | 3548560 | | | | |
| | LONGITUDE | 629271 | | W | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE | | | | | | |

2. DRILLING & CASING INFORMATION

| | | | | | | | |
|---|-------------------------------------|--|--|---|--|--------------------------------|--------------------|
| LICENSE NO. WD 1186 | | NAME OF LICENSED DRILLER RODNEY HAMMER | | | NAME OF WELL DRILLING COMPANY ENVIRO-DRILL, INC. | | |
| DRILLING STARTED 10/05/2020 | DRILLING ENDED 10/06/2020 | DEPTH OF COMPLETED WELL (FT) 55' | BORE HOLE DEPTH (FT) 55' | DEPTH WATER FIRST ENCOUNTERED (FT) None (Dry) | | | |
| COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) | | | |
| DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: HSA | | | | | | | |
| DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| FROM | TO | | | | | | |
| 55 | 45 | 8" | Screen | FJT | 2" | 2" | .010 |
| 45 | 0 | 8" | Blank | 11 | 11 | 11 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

3. ANNULAR MATERIAL

| DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
|------------------|-----------|--------------------------|---|---------------------|---------------------|
| FROM | TO | | | | |
| 55 | 43 | 8" | Sand 10/20 | 10 | tremie |
| 43 | 41 | 8" | Hole Plug | 1 | |
| 41 | 0 | 8" | Grout | 100 gal. | ↓ |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

FOR OSE INTERNAL USE

| | |
|-------------------------------|--|
| FILE NO. C-0-2599 | WR-20 WELL RECORD & LOG (Version 06/30/17) |
| LOCATION 2-2-4 | POD NO. 2N-33E-10 |
| WELL TAG ID NO. 693367 | PAGE 1 OF 2 |

[illegible]

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DIT AUG 2 2021 PM 2:50

| | | | | | | | |
|---|---|------------------------------|---|---|---|--|-----------------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (MW-1) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4549 | | |
| | WELL OWNER NAME(S) BTA Oil Producers | | | | PHONE (OPTIONAL) | | |
| | WELL OWNER MAILING ADDRESS 104 S. Pecos St. | | | | CITY Midland | STATE TX | ZIP 79701 |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 4 | SECONDS 40.92 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | | LONGITUDE 103 | 37 | 53.68 W | * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW NW Sec. 11 T26S R32E | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | |
| | DRILLING STARTED 07/14/2021 | DRILLING ENDED 07/14/2021 | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) 103 | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | |
| | DEPTH (feet bgl) FROM TO | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) |
| | 0 103 | | ±8.5 | Boring- HSA | -- | -- | -- |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) FROM TO | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

| | | |
|----------|-----------------|-------------|
| FILE NO. | POD NO. | TRN NO. |
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

DSE DIT AUG 2 2021 PM 2:50



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4549-POD1

Well owner: BTA Oil Producers

Phone No.: 432.312.2203

Mailing address: 104 S. Pecos St.

City: Midland

State: Texas

Zip code: 79701

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Shane Eldridge, Cameron Pruitt, Carmelo Trevino

4) Date well plugging began: 07/19/2021 Date well plugging concluded: 07/19/2021

5) GPS Well Location: Latitude: 32 deg, 4 min, 40.92 sec
Longitude: 103 deg, 37 min, 53.68 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 103 ft below ground level (bgl),
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 6/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT AUG 2 2021 PM2:50

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Jack Atkins

07/28/2021

Signature of Well Driller

Date _____

Version: September 8, 2009
Page 2 of 2

2021-07-28C-4549-POD1_Plugging Record-forsign

DSE DIT AUG 2 2021 PM 2:50

Final Audit Report

2021-07-29

| | |
|-----------------|--|
| Created: | 2021-07-29 |
| By: | Lucas Middleton (lucas@atkinseng.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAiFUITUMQvUeHWAgcMsacioucKnSt5mzA |

"2021-07-28C-4549-POD1_Plugging Record-forsign" History



Document created by Lucas Middleton (lucas@atkinseng.com)

2021-07-29 - 8:42:26 PM GMT- IP address: 69.21.248.123



Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2021-07-29 - 8:42:53 PM GMT



Email viewed by Jack Atkins (jack@atkinseng.com)

2021-07-29 - 8:44:10 PM GMT- IP address: 64.90.153.232



Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2021-07-29 - 8:44:29 PM GMT - Time Source: server- IP address: 64.90.153.232



Agreement completed.

2021-07-29 - 8:44:29 PM GMT



Adobe Sign



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE 07 JUN 21 2021 #410113

| | | | | | | | |
|---|---|----------------------------|---|---|---|---|--------------------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) C-4537 POD1 | | WELL TAG ID NO. 20E6C | | OSE FILE NO(S). C-4537 | | |
| | WELL OWNER NAME(S) BASIN PROPERTIES RANCHES LLC | | | | PHONE (OPTIONAL) | | |
| | WELL OWNER MAILING ADDRESS 3300 N A STREET, BLDG 1, STE 220 | | | | CITY MIDLAND | STATE TX | |
| | | | | | ZIP 79705 | | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 04 | SECONDS 50.8 | N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | |
| | | LONGITUDE 103 | 36 | 10.7 | W | * DATUM REQUIRED: WGS 84 | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. WD1706 | | NAME OF LICENSED DRILLER Bryce Wallace | | | NAME OF WELL DRILLING COMPANY Elite Drillers Corporation | |
| | DRILLING STARTED 06/11/21 | DRILLING ENDED 06/12/21 | DEPTH OF COMPLETED WELL (FT) 500 | BORE HOLE DEPTH (FT) 500 | DEPTH WATER FIRST ENCOUNTERED (FT) 280 | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) 280 | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | |
| | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) |
| | FROM | TO | | | | | |
| | 0 | 20 | 12 3/4 | STEEL | N/A | 8.28 | .337 |
| | 0 | 300 | 7 7/8 | SDR17 PVC | SPLINE | 4.3 | SDR17 |
| | 300 | 500 | 7 7/8 | SDR17 PVC | SPLINE | 4.3 | SDR17 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | |
| | FROM | TO | | | | | |
| | 0 | 20 | 12 3/4 | CEMENT | 10 | TOP FILL | |
| | 0 | 20 | 7 7/8 | CEMENT | 6 | TOP FILL | |
| | 300 | 500 | 7 7/8 | 8/16 SILICA SAND | 46 | TOP FILL | |
| | | | | | | | |
| | | | | | | | |

FOR OSE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 06/30/17)


| | | | | | |
|----------|--------|----------------|-----------------|---------|-------------|
| FILE NO. | C-4537 | POD NO. | 1 | TRN NO. | 045385 |
| LOCATION | SHK | 255.33E.31.444 | WELL TAG ID NO. | 20E6C | PAGE 1 OF 2 |





APPENDIX B


Lithologic Soil Sampling Logs


|  ENSOLUM | | Sample Name: BH01 | | 3/8/2023 | | | | |
|--|----------------|--|-----------------------|-----------|-----------------------|----------------|------------------|--|
| | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | | | | |
| | | Incident Number: nAPP2303737335 | | | | | | |
| | | Job Number: 03C2012021 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.062681, -103.6140367 | | | Logged By: L. Daniell | | Method: Hand Auger | | | |
| | | | Hole Diameter: 4" | | Total Depth: 1' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | <170 | 0.1 | N | BH01 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. |
| D | <170 | 0 | N | BH01A | 1 | 1 | CCHE | SAA |
| TD @ 1 FOOT BGS | | | | | | | | |


|  ENSOLUM | | Sample Name: BH02 | | 3/8/2023 | | | | |
|--|----------------|--|-----------------------|-----------|-----------------------|----------------|------------------|--|
| | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | | | | |
| | | Incident Number: nAPP2303737335 | | | | | | |
| | | Job Number: 03C2012021 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.0626557, -103.6143083 | | | Logged By: L. Daniell | | Method: Hand Auger | | | |
| | | | Hole Diameter: 4" | | Total Depth: 1' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | 1,618 | 0.0 | N | BH02 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. |
| D | 289 | 0.0 | N | BH02A | 1 | 1 | CCHE | SAA |
| TD @ 1 FOOT BGS | | | | | | | | |


|  ENSOLUM | | Sample Name: BH03 | | Date: 3/8/2023 | | | | |
|---|----------------|--|-----------------------|----------------|-----------------------|----------------|------------------|--|
| | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | | | | |
| | | Incident Number: nAPP2303737335 | | | | | | |
| | | Job Number: 03C2012021 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.0627540, -103.6145218 | | | Logged By: L. Daniell | | Method: Hand Auger | | | |
| | | | Hole Diameter: 4" | | Total Depth: 1' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | <170 | 0.0 | N | BH03 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. |
| D | <170 | 0.0 | N | BH03A | 1 | 1 | CCHE | SAA |
| TD @ 1 FOOT BGS | | | | | | | | |


|  ENSOLUM | | Sample Name: BH04 | | Date: 3/8/2023 | | | | |
|---|----------------|--|-----------------------|----------------|-----------------------|----------------|------------------|--|
| | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | | | | |
| | | Incident Number: nAPP2303737335 | | | | | | |
| | | Job Number: 03C2012021 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.0628844, -103.614714 | | | Logged By: L. Daniell | | Method: Hand Auger | | | |
| | | | Hole Diameter: 4" | | Total Depth: 1' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | <170 | 0.0 | N | BH04 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. |
| D | <170 | 0.0 | N | BH04A | 1 | 1 | CCHE | SAA |
| TD @ 1 FOOT BGS | | | | | | | | |


|  | | | | | | | | Sample Name: BH05 | | Date: 3/8-9/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
| | | | | | | | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | |
| | | | | | | | | Incident Number: nAPP2303737335 | | | |
| | | | | | | | | Job Number: 03C2012021 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: L. Daniell | | Method: Backhoe | |
| Coordinates: 32.0625949, -103.6138096 | | | | | | | | Hole Diameter: NA | | Total Depth: 1' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 1,618 | 0.0 | N | BH05 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. | | | |
| D | <170 | 0.0 | N | BH05A | 1 | 1 | CCHE | SAA | | | |
| TD @ 1 FOOT BGS | | | | | | | | | | | |


|  ENSOLUM | | | | | | | | Sample Name: BH06 | | Date: 3/8-10/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
| | | | | | | | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | |
| | | | | | | | | Incident Number: nAPP2303737335 | | | |
| | | | | | | | | Job Number: 03C2012021 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: L. Daniell | | Method: Hand Auger | |
| Coordinates: 32.0626551, -103.6148627 | | | | | | | | Hole Diameter: 4" | | Total Depth: 1.5' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 1,461 | 0.1 | N | BH06 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. | | | |
| D | 683 | 0.0 | N | | | 1 | CCHE | SAA | | | |
| D | 554 | 0.0 | N | BH06A | 1.5 | 1.5 | SP-SM | SAND, brown, sand and gravel, trace silt, poorly graded, no stain, no odor. | | | |
| TD @ 1.5 FEET BGS | | | | | | | | | | | |

|  ENSOLUM | | | | | | | | Sample Name: BH07 | | Date: 3/8-10/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
| | | | | | | | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | |
| | | | | | | | | Incident Number: nAPP2303737335 | | | |
| | | | | | | | | Job Number: 03C2012021 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: L. Daniell | | Method: Hand Auger | |
| Coordinates: 32.0626375, -103.6151362 | | | | | | | | Hole Diameter: 4" | | Total Depth: 1.5' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 1,808 | 0.0 | N | BH07 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. | | | |
| D | 683 | 0.0 | N | | | 1 | CCHE | SAA | | | |
| D | <170 | 0.0 | N | BH07A | 1.5 | 1.5 | SP-SM | SAND, brown, sand and gravel, trace silt, poorly graded, no stain, no odor. | | | |
| TD @ 1.5 FEET BGS | | | | | | | | | | | |

|  | | | | | | | | Sample Name: BH08 | | Date: 3/10-18/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
| | | | | | | | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | |
| | | | | | | | | Incident Number: nAPP2303737335 | | | |
| | | | | | | | | Job Number: 03C2012021 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: L. Daniell | | Method: Backhoe | |
| Coordinates: 32.0626146, -103.6155988 | | | | | | | | Hole Diameter: NA | | Total Depth: 4' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 11,121 | 0.0 | N | BH08 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. | | | |
| D | 6,855 | 0.0 | N | | | 1 | CCHE | SAA | | | |
| D | 5,931 | 0.0 | N | | | 1.5 | SP-SM | SAND, brown, sand and gravel, trace silt, poorly graded, no stain, no odor. | | | |
| D | 4,362 | 0.0 | N | BH08A | 2 | 2 | SP-SM | SAA | | | |
| D | 3,237 | 0.0 | N | | | 2.5 | SP-SM | SAA | | | |
| D | 1,708 | 0.0 | N | | | 3 | SP-SM | SAA | | | |
| D | 411 | 0.0 | N | | | 3.5 | SP-SM | SAA | | | |
| D | 206 | 0.0 | N | BH08B | 4 | 4 | SP-SM | SAA | | | |
| TD @ 4 FEET BGS | | | | | | | | | | | |

|  ENSOLUM | | | | | | | | Sample Name: BH09 | | Date: 3/10-18/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
| | | | | | | | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | |
| | | | | | | | | Incident Number: nAPP2303737335 | | | |
| | | | | | | | | Job Number: 03C2012021 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: L. Daniell | | Method: Backhoe | |
| Coordinates: 32.0628667, -103.6155667 | | | | | | | | Hole Diameter: NA | | Total Depth: 1.5' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 2,743 | 0.0 | N | BH09 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. | | | |
| D | 678 | 0.0 | N | | | 1 | CCHE | SAA | | | |
| D | 457 | 0.0 | N | BH09A | 1.5 | 1.5 | SP-SM | SAND, brown, sand and gravel, trace silt, poorly graded, no stain, no odor. | | | |
| Total Depth @ 1.5' | | | | | | | | | | | |
| <div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div> | | | | | | | | | | | |

|  ENSOLUM | | Sample Name: BH10 | | Date: 3/10-18/2023 | | | | |
|--|----------------|--|-----------------------|--------------------|-----------------------|----------------|------------------|---|
| | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | | | | |
| | | Incident Number: nAPP2303737335 | | | | | | |
| | | Job Number: 03C2012021 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.0624710, -103.6157376 | | | Logged By: L. Daniell | | Method: Backhoe | | | |
| | | | Hole Diameter: NA | | Total Depth: 2' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | 3,237 | 0.0 | N | BH10 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. |
| D | 1,143 | 0.0 | N | | | 1 | CCHE | SAA |
| D | 289 | 0.0 | N | | | 1.5 | SP-SM | SAND, brown, sand and gravel, trace silt, poorly graded, no stain, no odor. |
| D | <170 | 0.0 | N | BH10A | 2 | 2 | SP-SM | SAA |
| TD @ 2 FEET BGS | | | | | | | | |

|  | | | | | | | | Sample Name: BH11 | | Date: 3/10-18/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
| | | | | | | | | Site Name: Mesa B West – Burned Water Transfer Poly Line | | | |
| | | | | | | | | Incident Number: nAPP2303737335 | | | |
| | | | | | | | | Job Number: 03C2012021 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: L. Daniell | | Method: Backhoe | |
| Coordinates: 32.0625159, -103.6159653 | | | | | | | | Hole Diameter: NA | | Total Depth: 5.5' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. SAA-Same As Above. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 6,855 | 0.0 | N | BH11 | 0.5 | 0.5 | CCHE | CALICHE, tannish brown, abundant gravel, poorly graded, no stain, no odor. | | | |
| D | 4,245 | 0.0 | N | | | 1 | CCHE | SAA | | | |
| D | 1,458 | 0.0 | N | | | 1.5 | SP-SM | SAND, brown, sand and gravel, trace silt, poorly graded, no stain, no odor. | | | |
| D | 1,143 | 0.0 | N | | | 2 | SP-SM | SAA | | | |
| D | 813 | 0.0 | N | | | 2.5 | SP-SM | SAA | | | |
| D | 743 | 0.0 | N | | | 3 | SP-SM | SAA | | | |
| D | 617 | 0.0 | N | | | 3.5 | SW-SM | SAND, reddish brown, sand and silt, trace gravel, well graded, no stain, no odor. | | | |
| D | 560 | 0.0 | N | BH11A | 4 | 4 | SW-SM | SAA | | | |
| D | <170 | 0.0 | N | | | 4.5 | SW-SM | SAA | | | |
| D | <170 | 0.0 | N | | | 5 | SW-SM | SAA | | | |
| D | <170 | 0.0 | N | BH11B | 5.5 | 5.5 | SW-SM | SAA | | | |
| TD @ 5.5 FEET BGS | | | | | | | | | | | |



APPENDIX C

Photographic Log

**Photographic Log**

BTA Oil Producers

Mesa B West - Burned Water Transfer Poly Line

Incident Number NAPP2303737335



Photograph: 1 Date: 2/5/2023
 Description: Initial release extent
 View: West



Photograph: 2 Date: 4/10/2023
 Description: Excavation activities
 View: South



Photograph: 3 Date: 4/18/2023
 Description: Excavation activities
 View: Southwest



Photograph: 4 Date: 4/18/2023
 Description: Excavation activities
 View: West



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

March 17, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B EAST/WEST NGL WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/15/23 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 01 (0.5') (H231182-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 01 A (1') (H231182-02)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 02 (0.5') (H231182-03)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1920 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 02 A (1') (H231182-04)

| 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 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 336 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 03 (0.5') (H231182-05)

| 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 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 128 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 03 A (1') (H231182-06)

| 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 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 80.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 04 (0.5') (H231182-07)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 04 A (1') (H231182-08)

| 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 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 05 (0.5') (H231182-09)

| 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 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1620 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/09/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 05 A (1.5') (H231182-10)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 87.1 | 200 | 1.59 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 173 | 86.4 | 200 | 1.35 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 08 (0.5') (H231182-11)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 10600 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | 1130 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | 230 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 09 (0.5') (H231182-12)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2840 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 10 (0.5') (H231182-13)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 3400 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 11 (0.5') (H231182-14)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 6880 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: SS - 01 @ 0.5' (H231182-15)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: SS - 02 @ 0.5' (H231182-16)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: SS - 03 @ 0.5' (H231182-17)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.2 | 2.00 | 12.4 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 85.9 | 2.00 | 16.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.72 | 86.0 | 2.00 | 14.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.24 | 87.3 | 6.00 | 14.8 | | |
| Total BTEx | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: SS - 04 @ 0.5' (H231182-18)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 240 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: SS - 05 @ 0.5' (H231182-19)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: SS - 06 @ 0.5' (H231182-20)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 11 A (4') (H231182-21)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 592 | 16.0 | 03/16/2023 | ND | 448 | 112 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 11 B (5.5') (H231182-22)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 09 A (1.5') (H231182-23)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 07 A (1.5') (H231182-24)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEx | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 08 A (2') (H231182-25)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 3920 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 06 A (1.5') (H231182-26)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEx | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 624 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 10 A (2') (H231182-27)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEx | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/10/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 08 B (4') (H231182-28)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEx | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 192 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 06 (0.5') (H231182-29)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1960 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 03/15/2023 | Sampling Date: | 03/08/2023 |
| Reported: | 03/17/2023 | Sampling Type: | Soil |
| Project Name: | MESA B EAST/WEST NGL WATER TRANS | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012018 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA 32.062595, -103.614578 | | |

Sample ID: BH - 07 (0.5') (H231182-30)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 03/16/2023 | ND | 2.05 | 103 | 2.00 | 4.16 | | |
| Toluene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.90 | 95.2 | 2.00 | 3.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/16/2023 | ND | 1.91 | 95.7 | 2.00 | 3.92 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/16/2023 | ND | 5.83 | 97.1 | 6.00 | 3.66 | | |
| Total BTEX | <0.300 | 0.300 | 03/16/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1970 | 16.0 | 03/16/2023 | ND | 416 | 104 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/16/2023 | ND | 174 | 86.9 | 200 | 3.93 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/16/2023 | ND | 187 | 93.3 | 200 | 5.83 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/16/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

| | |
|-------|--|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QR-04 | The RPD for the BS/BSD was outside of historical limits. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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 whatsoever 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.

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: <u>Ensolum, LLC</u> | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | |
| Project Manager: <u>Hadlie Green</u> | | | | P.O. #: | | | | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div> | | | | | | | | | | | |
| Address: | | | | Company: <u>BTA Oil</u> | | | | | | | | | | | | | | | |
| City: State: Zip: | | | | Attn: <u>Bob Hall</u> | | | | | | | | | | | | | | | |
| Phone #: <u>432 557 8895</u> Fax #: | | | | Address: <u>104 S Pecan St</u> | | | | | | | | | | | | | | | |
| Project #: Project Owner: | | | | City: <u>Midland</u> | | | | | | | | | | | | | | | |
| Project Name: <u>Mesa B East/West Water Transfer Line</u> | | | | State: <u>TX</u> Zip: <u>79701</u> | | | | | | | | | | | | | | | |
| Project Location: <u>32.062595, -103.614578</u> | | | | Phone #: <u>432 312 2203</u> | | | | | | | | | | | | | | | |
| Sampler Name: <u>L. Daniell</u> | | | | Fax #: | | | | | | | | | | | | | | | |

| FOR LAB USE ONLY | | Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | DATE | TIME | BTX | TPH | Chlorides |
|------------------|--|----------|---------------|-------------------|--------------|-------------|------------|------|-----|--------|----------|----------|-----------|--------|-------|-----|-----|-----------|
| | | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | | OTHER | ACID/BASE | | | | | |
| 1 | | H231182 | BH-01 (0.5') | G | 1 | | | X | | | | X | | 3/8/23 | 10:30 | X | X | X |
| 2 | | | BH-01a (1') | G | 1 | | | X | | | | X | | 3/8/23 | 10:40 | X | X | X |
| 3 | | | BH-02 (0.5') | G | 1 | | | X | | | | X | | 3/8/23 | 11:00 | X | X | X |
| 4 | | | BH-02a (1') | G | 1 | | | X | | | | X | | 3/8/23 | 11:10 | X | X | X |
| 5 | | | BH-03 (0.5') | G | 1 | | | X | | | | X | | 3/8/23 | 13:00 | X | X | X |
| 6 | | | BH-03a (1') | G | 1 | | | X | | | | X | | 3/8/23 | 13:10 | X | X | X |
| 7 | | | BH-04 (0.5') | G | 1 | | | X | | | | X | | 3/8/23 | 13:30 | X | X | X |
| 8 | | | BH-04a (1') | G | 1 | | | X | | | | X | | 3/8/23 | 13:30 | X | X | X |
| 9 | | | BH-05 (0.5') | G | 1 | | | X | | | | X | | 3/8/23 | 13:40 | X | X | X |
| 10 | | | BH-05a (1.5') | G | 1 | | | X | | | | X | | 3/8/23 | 14:05 | X | X | X |

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | | | | |
|------------------------------|--|--------------------------------|---|--|---|---|
| Relinquished By: | | Date: <u>3/8/23</u> | Received By: | | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: | |
| Time: <u>17:08</u> | | Time: <u>17:08</u> | | All Results are emailed. Please provide Email address: | | |
| Relinquished By: | | Date: <u>3/15/23</u> | Received By: | | REMARKS: | |
| Time: <u>1430</u> | | Time: <u>1430</u> | | Email: <u>hgreen@ensolum.com</u> | | |
| Delivered By: (Circle One) | | Observed Temp. °C: <u>1.2</u> | Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No | CHECKED BY: | Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush | Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C |
| Sampler - UPS - Bus - Other: | | Corrected Temp. °C: <u>0.6</u> | | | Thermometer ID #113 Correction Factor -0.6°C | Corrected Temp. °C |

FORM-006 R 3.3 07/16/22

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: Ensolum, LLC | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | |
|--|-------------|---------------------|--------------------------------|-----------------------|------------|------|-----|--|----------|------------|----------|--------|---------|-------|---|---|---|--|--|--|--|--|--|--|--|--|
| Project Manager: | | | | P.O. #: | | | | <div style="display: flex; justify-content: space-around; font-size: 2em;"> <div>BTEX</div> <div>TPH</div> <div>Chlorides</div> </div> | | | | | | | | | | | | | | | | | | |
| Address: 601 N. Marienfeld St. STE 400 | | | | Company: BTA Oil | | | | | | | | | | | | | | | | | | | | | | |
| City: Midland State: TX Zip: 79701 | | | | Attn: Bob Hall | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: Fax #: | | | | Address: 104 S. Pecoy | | | | | | | | | | | | | | | | | | | | | | |
| Project #: Project Owner: | | | | City: Midland | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Mesa B East/West Transfer Line | | | | State: TX Zip: 79701 | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: 32.062995, -103.614578 | | | | Phone #: 4323122203 | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | | | | | | | | | | | | | | | |
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE/COOL | OTHER: | DATE | TIME | | | | | | | | | | | | |
| #231182 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | BH-08 | 0.5 | 1 | | | X | | | | X | | | 3/8/23 | 12:30 | X | X | X | | | | | | | | | |
| 12 | BH-09 | 0.5 | 1 | | | X | | | | X | | | 3/8/23 | 12:40 | X | X | X | | | | | | | | | |
| 13 | BH-10 | 0.5 | 1 | | | X | | | | X | | | 3/8/23 | 12:50 | X | X | X | | | | | | | | | |
| 14 | BH-11 | 0.5 | 1 | | | X | | | | X | | | 3/8/23 | 12:50 | X | X | X | | | | | | | | | |
| 15 | SS-0100.5 | 0.5 | 1 | | | X | | | | X | | | 3/8/23 | 14:30 | X | X | X | | | | | | | | | |
| 16 | SS-0200.5 | 0.5 | 1 | | | X | | | | X | | | 3/10/23 | 10:00 | X | X | X | | | | | | | | | |
| 17 | SS-0300.5 | 0.5 | 1 | | | X | | | | X | | | 3/10/23 | 10:40 | X | X | X | | | | | | | | | |
| 18 | SS-0400.5 | 0.5 | 1 | | | X | | | | X | | | 3/10/23 | 13:00 | X | X | X | | | | | | | | | |
| 19 | SS-0500.5 | 0.5 | 1 | | | X | | | | X | | | 3/10/23 | 13:40 | X | X | X | | | | | | | | | |
| 20 | SS-0600.5 | 0.5 | 1 | | | X | | | | X | | | 3/10/23 | 13:50 | X | X | X | | | | | | | | | |
| | | | | | | X | | | | X | | | 3/10/23 | 13:55 | X | X | X | | | | | | | | | |

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|------------------------------|-------------------------|---|---|
| Relinquished By: | Date: 3/10/23 | Received By: | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: |
| | Time: 18:48 | | All Results are emailed. Please provide Email address: |
| Relinquished By: | Date: 3/15/23 | Received By: | Bjennings@ensolum.com |
| | Time: 1430 | | REMARKS: |
| Delivered By: (Circle One) | Observed Temp. °C: 1.2 | Sample Condition | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C: 0.6 | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No | Bacteria (only) Sample Condition |
| | | CHECKED BY: (Initials) | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No |
| | | | Thermometer ID #113 |
| | | | Correction Factor -0.5°C |
| | | | Corrected Temp. °C |

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



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company Name: Ensolum, LLC | | | | | | BILL TO | | | | | | | | ANALYSIS REQUEST | | | | | | | | | | | |
|---|-------------|------------------------|-----------------------------------|-------------|------------|--------------------------|-----|--------|---------|--------------------------|----------|--|---------|-------------------------|-----|-----|-----------|--|--|--|--|--|--|--|--|
| Project Manager: Hadlie Green | | | | | | P.O. #: | | | | | | | | | | | | | | | | | | | |
| Address: 601 N. Marienfeld St. STE 400 | | | | | | Company: BTA Oil | | | | | | | | | | | | | | | | | | | |
| City: Midland State: TX Zip: 79701 | | | | | | Attn: Bob Hall | | | | | | | | | | | | | | | | | | | |
| Phone #: 4325578895 Fax #: | | | | | | Address: 104 S. Pecos St | | | | | | | | | | | | | | | | | | | |
| Project #: Project Owner: | | | | | | City: Midland | | | | | | | | | | | | | | | | | | | |
| Project Name: Mesa B East/West Transferline | | | | | | State: Tx Zip: 79701 | | | | | | | | | | | | | | | | | | | |
| Project Location: 32.06295, -103.64578 | | | | | | Phone #: 4323122203 | | | | | | | | | | | | | | | | | | | |
| Sampler Name: | | | | | | Fax #: | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | Sample Depth (feet) | (GRAB OR C/JOMP. # CONTAINERS) | MATRIX | | | | | | PRESERV. | SAMPLING | | DATE | TIME | BTX | TPH | Chlorides | | | | | | | | |
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: ICE / COOL | OTHER : | | | | | | | | | | | | | | |
| H23182 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | BH-11a | 4 | G1 | | X | | | | | X | | | 3/10/23 | 9:15 | X | X | X | | | | | | | | |
| 22 | BH-11b | 5.5 | G1 | | X | | | | | X | | | 3/10/23 | 9:35 | X | X | X | | | | | | | | |
| 23 | BH-09a | 1.5 | G1 | | X | | | | | X | | | 3/10/23 | 10:50 | X | X | X | | | | | | | | |
| 24 | BH-07a | 1.5 | G1 | | X | | | | | X | | | 3/10/23 | 11:15 | X | X | X | | | | | | | | |
| 25 | BH-08a | 2 | G1 | | X | | | | | X | | | 3/10/23 | 11:45 | X | X | X | | | | | | | | |
| 26 | BH-06a | 1.5 | G1 | | X | | | | | X | | | 3/10/23 | 12:00 | X | X | X | | | | | | | | |
| 27 | BH-10a | 2 | G1 | | X | | | | | X | | | 3/10/23 | 9:45 | X | X | X | | | | | | | | |
| 28 | BH-08b | 4 | G1 | | X | | | | | X | | | 3/10/23 | 12:30 | X | X | X | | | | | | | | |
| 29 | BH-06 | 0.5 | G1 | | X | | | | | X | | | 3/8/23 | 10:50 | X | X | X | | | | | | | | |
| 30 | BH-07 | 0.5 | G1 | | X | | | | | X | | | 3/8/23 | 12:20 | X | X | X | | | | | | | | |

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | | |
|--|--|--|---|---|
| Relinquished By: [Signature] | | Date: 3/10/23 | Received By: [Signature] | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: |
| Time: 18:47 | | | All Results are emailed. Please provide Email address: | |
| Relinquished By: | | Date: 3/15/23 | Received By: | Bjennings@ensolum.com |
| Time: 1430 | | | REMARKS: | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C: 61.2 | Corrected Temp. °C: 60.6 | Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | CHECKED BY: (Initials) [Signature] |
| | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush | Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID #113 Correction Factor -0.5°C | Corrected Temp. °C: |

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



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

April 18, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B WEST

Enclosed are the results of analyses for samples received by the laboratory on 04/12/23 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|---------------------------------|---------------------|------------------|
| Received: | 04/12/2023 | Sampling Date: | 04/10/2023 |
| Reported: | 04/18/2023 | Sampling Type: | Soil |
| Project Name: | MESA B WEST | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012021 (32.06221-103.61441) | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA - LEA COUNTY, NM | | |

Sample ID: FS 01 2' (H231725-01)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.77 | 88.3 | 2.00 | 6.23 | | |
| Toluene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.85 | 92.3 | 2.00 | 7.31 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2023 | ND | 2.02 | 101 | 2.00 | 6.93 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2023 | ND | 6.23 | 104 | 6.00 | 6.43 | | |
| Total BTEx | <0.300 | 0.300 | 04/15/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 04/17/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/14/2023 | ND | 171 | 85.3 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/14/2023 | ND | 175 | 87.6 | 200 | 1.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/14/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/12/2023
Reported: 04/18/2023
Project Name: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 04/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 02 2' (H231725-02)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.77 | 88.3 | 2.00 | 6.23 | | |
| Toluene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.85 | 92.3 | 2.00 | 7.31 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2023 | ND | 2.02 | 101 | 2.00 | 6.93 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2023 | ND | 6.23 | 104 | 6.00 | 6.43 | | |
| Total BTX | <0.300 | 0.300 | 04/15/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 272 | 16.0 | 04/17/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/14/2023 | ND | 171 | 85.3 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/14/2023 | ND | 175 | 87.6 | 200 | 1.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/14/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/12/2023
Reported: 04/18/2023
Project Name: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 04/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 03 2' (H231725-03)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.77 | 88.3 | 2.00 | 6.23 | | |
| Toluene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.85 | 92.3 | 2.00 | 7.31 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2023 | ND | 2.02 | 101 | 2.00 | 6.93 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2023 | ND | 6.23 | 104 | 6.00 | 6.43 | | |
| Total BTX | <0.300 | 0.300 | 04/15/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 04/17/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/14/2023 | ND | 171 | 85.3 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/14/2023 | ND | 175 | 87.6 | 200 | 1.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/14/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/12/2023
Reported: 04/18/2023
Project Name: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 04/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 2' (H231725-04)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.77 | 88.3 | 2.00 | 6.23 | | |
| Toluene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.85 | 92.3 | 2.00 | 7.31 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2023 | ND | 2.02 | 101 | 2.00 | 6.93 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2023 | ND | 6.23 | 104 | 6.00 | 6.43 | | |
| Total BTX | <0.300 | 0.300 | 04/15/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 04/17/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2023 | ND | 171 | 85.3 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/15/2023 | ND | 175 | 87.6 | 200 | 1.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/15/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/12/2023
Reported: 04/18/2023
Project Name: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 04/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 2' (H231725-05)

| 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 | 04/15/2023 | ND | 1.77 | 88.3 | 2.00 | 6.23 | | |
| Toluene* | <0.050 | 0.050 | 04/15/2023 | ND | 1.85 | 92.3 | 2.00 | 7.31 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2023 | ND | 2.02 | 101 | 2.00 | 6.93 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2023 | ND | 6.23 | 104 | 6.00 | 6.43 | | |
| Total BTEX | <0.300 | 0.300 | 04/15/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 04/17/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2023 | ND | 171 | 85.3 | 200 | 2.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/15/2023 | ND | 175 | 87.6 | 200 | 1.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/15/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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 whatsoever 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.

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 21, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B WEST

Enclosed are the results of analyses for samples received by the laboratory on 04/18/23 12:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|---------------------------------|---------------------|----------------|
| Received: | 04/18/2023 | Sampling Date: | 04/17/2023 |
| Reported: | 04/21/2023 | Sampling Type: | Soil |
| Project Name: | MESA B WEST | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012021 (32.06221-103.61441) | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA - LEA COUNTY, NM | | |

Sample ID: FS 06 1' (H231856-01)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.74 | 87.2 | 2.00 | 4.25 | | |
| Toluene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.84 | 92.1 | 2.00 | 2.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.88 | 94.2 | 2.00 | 1.99 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/20/2023 | ND | 5.74 | 95.7 | 6.00 | 1.31 | | |
| Total BTEx | <0.300 | 0.300 | 04/20/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 320 | 16.0 | 04/20/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/20/2023 | ND | 166 | 82.8 | 200 | 0.285 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/20/2023 | ND | 160 | 80.1 | 200 | 1.65 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/20/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/18/2023
Reported: 04/21/2023
Project Name: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 04/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 07 1' (H231856-02)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.74 | 87.2 | 2.00 | 4.25 | | |
| Toluene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.84 | 92.1 | 2.00 | 2.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.88 | 94.2 | 2.00 | 1.99 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/20/2023 | ND | 5.74 | 95.7 | 6.00 | 1.31 | | |
| Total BTEx | <0.300 | 0.300 | 04/20/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 128 | 16.0 | 04/20/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/20/2023 | ND | 166 | 82.8 | 200 | 0.285 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/20/2023 | ND | 160 | 80.1 | 200 | 1.65 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/20/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|---------------------------------|---------------------|----------------|
| Received: | 04/18/2023 | Sampling Date: | 04/17/2023 |
| Reported: | 04/21/2023 | Sampling Type: | Soil |
| Project Name: | MESA B WEST | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012021 (32.06221-103.61441) | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA - LEA COUNTY, NM | | |

Sample ID: FS 08 1' (H231856-03)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.74 | 87.2 | 2.00 | 4.25 | | |
| Toluene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.84 | 92.1 | 2.00 | 2.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.88 | 94.2 | 2.00 | 1.99 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/20/2023 | ND | 5.74 | 95.7 | 6.00 | 1.31 | | |
| Total BTEx | <0.300 | 0.300 | 04/20/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 128 | 16.0 | 04/20/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/20/2023 | ND | 166 | 82.8 | 200 | 0.285 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/20/2023 | ND | 160 | 80.1 | 200 | 1.65 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/20/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|---------------------------------|---------------------|----------------|
| Received: | 04/18/2023 | Sampling Date: | 04/17/2023 |
| Reported: | 04/21/2023 | Sampling Type: | Soil |
| Project Name: | MESA B WEST | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012021 (32.06221-103.61441) | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA - LEA COUNTY, NM | | |

Sample ID: FS 09 1' (H231856-04)

| 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 | 04/20/2023 | ND | 1.74 | 87.2 | 2.00 | 4.25 | | |
| Toluene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.84 | 92.1 | 2.00 | 2.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.88 | 94.2 | 2.00 | 1.99 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/20/2023 | ND | 5.74 | 95.7 | 6.00 | 1.31 | | |
| Total BTEx | <0.300 | 0.300 | 04/20/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 240 | 16.0 | 04/20/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/20/2023 | ND | 166 | 82.8 | 200 | 0.285 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/20/2023 | ND | 160 | 80.1 | 200 | 1.65 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/20/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|---------------------------------|---------------------|----------------|
| Received: | 04/18/2023 | Sampling Date: | 04/17/2023 |
| Reported: | 04/21/2023 | Sampling Type: | Soil |
| Project Name: | MESA B WEST | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012021 (32.06221-103.61441) | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA - LEA COUNTY, NM | | |

Sample ID: FS 10 1' (H231856-05)

| 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 | 04/20/2023 | ND | 1.74 | 87.2 | 2.00 | 4.25 | | |
| Toluene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.84 | 92.1 | 2.00 | 2.10 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.88 | 94.2 | 2.00 | 1.99 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/20/2023 | ND | 5.74 | 95.7 | 6.00 | 1.31 | | |
| Total BTEx | <0.300 | 0.300 | 04/20/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 04/20/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/20/2023 | ND | 166 | 82.8 | 200 | 0.285 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/20/2023 | ND | 160 | 80.1 | 200 | 1.65 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/20/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|---------------------------------|---------------------|----------------|
| Received: | 04/18/2023 | Sampling Date: | 04/17/2023 |
| Reported: | 04/21/2023 | Sampling Type: | Soil |
| Project Name: | MESA B WEST | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012021 (32.06221-103.61441) | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA - LEA COUNTY, NM | | |

Sample ID: FS 11 1' (H231856-06)

| 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 | 04/20/2023 | ND | 1.81 | 90.3 | 2.00 | 0.345 | | |
| Toluene* | <0.050 | 0.050 | 04/20/2023 | ND | 1.87 | 93.7 | 2.00 | 0.577 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/20/2023 | ND | 2.05 | 102 | 2.00 | 1.85 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/20/2023 | ND | 6.27 | 104 | 6.00 | 2.41 | | |
| Total BTEx | <0.300 | 0.300 | 04/20/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 336 | 16.0 | 04/20/2023 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/20/2023 | ND | 166 | 82.8 | 200 | 0.285 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/20/2023 | ND | 160 | 80.1 | 200 | 1.65 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/20/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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 whatsoever 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.

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| BILL TO | | | | | | | | | | ANALYSIS REQUEST | | | | | | | | | | |
|---|--|----------|-------------|--------------|-------------------|--------------|-------------|------------|------|--------------------------|--------|----------|-----------|------------|-------|---------|------|-----|-----|----|
| Company Name: Ensolum, LLC | | | | | | | | | | P.O. #: | | | | | | | | | | |
| Project Manager: Hadlie Green | | | | | | | | | | Company: BTA | | | | | | | | | | |
| Address: 3122 National Parks Hwy | | | | | | | | | | Attn: Bob Hall | | | | | | | | | | |
| City: Carlsbad State: NM Zip: 88220 | | | | | | | | | | Address: 104 South Pecos | | | | | | | | | | |
| Phone #: 432-557-8895 Fax #: | | | | | | | | | | City: Midland | | | | | | | | | | |
| Project #: 03C201201 Project Owner: BTA | | | | | | | | | | State: TX Zip: 79701 | | | | | | | | | | |
| Project Name: Mesa Bwest | | | | | | | | | | Phone #: 432-312-7203 | | | | | | | | | | |
| Project Location: 32.06221, -103.61441 | | | | | | | | | | Fax #: | | | | | | | | | | |
| Sampler Name: Connor Whitman | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | PRESERV. | | SAMPLING | | DATE | TIME | BTX | TPH | C- |
| | | | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER | ACID/BASE | ICE / COOL | OTHER | | | | | |
| | | H231856 | | 1" | G | 1 | | | X | | | | | | | 4/17/23 | 205 | X | X | X |
| | | 1 FS06 | | ↓ | ↓ | ↓ | | | ↓ | | | | | | ↓ | 215 | ↓ | ↓ | ↓ | |
| | | 2 FS07 | | ↓ | ↓ | ↓ | | | ↓ | | | | | | ↓ | 1030 | ↓ | ↓ | ↓ | |
| | | 3 FS08 | | ↓ | ↓ | ↓ | | | ↓ | | | | | | ↓ | 1245 | ↓ | ↓ | ↓ | |
| | | 4 FS09 | | ↓ | ↓ | ↓ | | | ↓ | | | | | | ↓ | 145 | ↓ | ↓ | ↓ | |
| | | 5 FS10 | | ↓ | ↓ | ↓ | | | ↓ | | | | | | ↓ | 150 | ↓ | ↓ | ↓ | |
| | | 6 FS11 | | ↓ | ↓ | ↓ | | | ↓ | | | | | | | | | | | |

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|------------------------------|------------------------|--|--|
| Relinquished By: | Date: 4/17/23 | Received By: | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: |
| Relinquished By: | Date: 4-18-23 | Received By: | All Results are emailed. Please provide Email address: |
| Delivered By: (Circle One) | Observed Temp. °C 5.0 | Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | REMARKS: Cooler Temp Blank to 4.0°C |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C 4.4 | CHECKED BY: (Initials) | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> |
| | | Thermometer ID #113 Correction Factor -0.5°C | Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No |

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



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

April 25, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B WEST

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|-------------------|---------------------------------|---------------------|------------------|
| Received: | 04/19/2023 | Sampling Date: | 04/18/2023 |
| Reported: | 04/25/2023 | Sampling Type: | Soil |
| Project Name: | MESA B WEST | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012021 (32.06221-103.61441) | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA - LEA COUNTY, NM | | |

Sample ID: FS 12 2' (H231886-01)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/22/2023 | ND | 1.87 | 93.5 | 2.00 | 14.7 | | |
| Toluene* | <0.050 | 0.050 | 04/22/2023 | ND | 2.00 | 99.8 | 2.00 | 15.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2023 | ND | 2.06 | 103 | 2.00 | 15.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2023 | ND | 6.22 | 104 | 6.00 | 16.2 | | |
| Total BTX | <0.300 | 0.300 | 04/22/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 04/21/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/22/2023 | ND | 174 | 86.9 | 200 | 2.17 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/22/2023 | ND | 176 | 87.8 | 200 | 0.650 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/22/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/19/2023
Reported: 04/25/2023
Project Name: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 13 3' (H231886-02)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/22/2023 | ND | 1.87 | 93.5 | 2.00 | 14.7 | | |
| Toluene* | <0.050 | 0.050 | 04/22/2023 | ND | 2.00 | 99.8 | 2.00 | 15.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2023 | ND | 2.06 | 103 | 2.00 | 15.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2023 | ND | 6.22 | 104 | 6.00 | 16.2 | | |
| Total BTX | <0.300 | 0.300 | 04/22/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 320 | 16.0 | 04/21/2023 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/22/2023 | ND | 174 | 86.9 | 200 | 2.17 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/22/2023 | ND | 176 | 87.8 | 200 | 0.650 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/22/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/19/2023
Reported: 04/25/2023
Project Name: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 01 0-2' (H231886-03)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 04/22/2023 | ND | 1.87 | 93.5 | 2.00 | 14.7 | | |
| Toluene* | <0.050 | 0.050 | 04/22/2023 | ND | 2.00 | 99.8 | 2.00 | 15.7 | | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2023 | ND | 2.06 | 103 | 2.00 | 15.5 | | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2023 | ND | 6.22 | 104 | 6.00 | 16.2 | | |
| Total BTX | <0.300 | 0.300 | 04/22/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 04/21/2023 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/22/2023 | ND | 174 | 86.9 | 200 | 2.17 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/22/2023 | ND | 176 | 87.8 | 200 | 0.650 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/22/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

| | |
|-------|---|
| QR-04 | The RPD for the BS/BSD was outside of historical limits. |
| 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. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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 whatsoever 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.

A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N. Marienfeld St. STE 400

City: Midland State: TX Zip: 79701

Phone #: 432 557 8895 Fax #: 432 201 2021

Project #: 03C2012021 Project Owner: Mesa B West

Project Name: Project Location: 32.06221, -103.61441

Sampler Name: Dmitriy A. Kabanov

BILL TO

P.O. #:

Company: BTA Oil

Attn: Bob Hall

Address: 104 Spruce St

City: Midland

State: TX Zip: 79701

Phone #: 432 312 2203

Fax #:

ANALYSIS REQUEST

| FOR LAB USE ONLY | | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | DATE | TIME | BTEX | TPH | Chlorides |
|------------------|-------------|---------------------|-------------------|--------------|-------------|------------|------|-----|--------|----------|-----------|------------|----------|-------|------|-----|-----------|
| Lab I.D. | Sample I.D. | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER | ACID/BASE | ICE / COOL | | | | | |
| H231886 | 1 FS12 | 2 | C | 1 | | | | | | | | | 04/18/23 | 10:20 | | | |
| | 2 FS13 | 3 | | | | | | | | | | | | 14:00 | | | |
| | 3 SW01 | 0-2 | | | | | | | | | | | | 14:30 | | | |

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]

Date: 4/19/23 Time: 1340

Relinquished By: [Signature]

Date: Time:

Received By: [Signature]

Received By: [Signature]

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

Observed Temp. °C: -0.8 Corrected Temp. °C: -1.4

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials) [Signature]

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

All Results are emailed. Please provide Email address: [Email]

REMARKS:

Turnaround Time: Standard ☒ Rush ☐

Bacteria (only) Sample Condition Cool Intact ☐ Yes ☐ No Observed Temp. °C: Corrected Temp. °C:

Thermometer ID #113 Correction Factor -0.5°C

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



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

May 08, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B WEST

Enclosed are the results of analyses for samples received by the laboratory on 05/03/23 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 1.0' (H232183-01)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.97 | 98.3 | 2.00 | 1.67 | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.99 | 99.4 | 2.00 | 2.84 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.96 | 97.9 | 2.00 | 1.81 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 5.96 | 99.3 | 6.00 | 1.40 | |
| Total BTX | <0.300 | 0.300 | 05/05/2023 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 05/04/2023 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 1.0' (H232183-02)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.97 | 98.3 | 2.00 | 1.67 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.99 | 99.4 | 2.00 | 2.84 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.96 | 97.9 | 2.00 | 1.81 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 5.96 | 99.3 | 6.00 | 1.40 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 192 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 57.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 1.0' (H232183-03)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.97 | 98.3 | 2.00 | 1.67 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.99 | 99.4 | 2.00 | 2.84 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 1.96 | 97.9 | 2.00 | 1.81 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 5.96 | 99.3 | 6.00 | 1.40 | | |
| Total BTEX | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 320 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 1.0' (H232183-04)

| 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 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | QR-03 | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 256 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 1.0' (H232183-05)

| 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 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 1.0' (H232183-06)

| 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 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 304 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 21 1.0' (H232183-07)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 1.0' (H232183-08)

| BTX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | |
| Total BTX | <0.300 | 0.300 | 05/05/2023 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 23 1.0' (H232183-09)

| 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 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEX | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 80.0 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 1.0' (H232183-10)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 1.0' (H232183-11)

| BTEX 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEX | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 80.0 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 1.0' (H232183-12)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 80.0 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 1.0' (H232183-13)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 80.0 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 162 | 80.8 | 200 | 1.94 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 156 | 78.1 | 200 | 2.43 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 1.0' (H232183-14)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 176 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 192 | 96.1 | 200 | 19.5 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 192 | 96.0 | 200 | 18.4 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2023
 Reported: 05/08/2023
 Project Name: MESA B WEST
 Project Number: 03C2012021
 Project Location: BTA 32.06221,-103.61441

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 1.0' (H232183-15)

| BTEx 8021B | | mg/kg | | Analyzed By: JH/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.05 | 103 | 2.00 | 2.88 | |
| Toluene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.16 | 108 | 2.00 | 3.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2023 | ND | 2.10 | 105 | 2.00 | 2.27 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2023 | ND | 6.49 | 108 | 6.00 | 1.85 | |
| Total BTEx | <0.300 | 0.300 | 05/05/2023 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 256 | 16.0 | 05/04/2023 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2023 | ND | 192 | 96.1 | 200 | 19.5 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2023 | ND | 192 | 96.0 | 200 | 18.4 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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 whatsoever 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.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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 whatsoever 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.

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------|--|----------------------------|--|--------------------|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: Ensolum, LLC | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | |
| Project Manager: Hadlie Green | | | | P.O. #: | | | | | | | | | | | | | | | | | |
| Address: 601 N Marienfeld Street, Suite 400 | | | | Company: BTA Oil Producers | | | | | | | | | | | | | | | | | |
| City: Midland | | State: TX | | Zip: 79701 | | Attn: Nathan Sirgo | | | | | | | | | | | | | | | |
| Phone #: 432-557-8895 | | Fax #: | | Address: 104 S Pecos St | | | | | | | | | | | | | | | | | |
| Project #: 03C2012021 | | Project Owner: | | City: Midland | | | | | | | | | | | | | | | | | |
| Project Name: Mesa B West | | | | State: TX | | | | | | | | | | | | | | | | | |
| Project Location: 32.06221, -103.61441 | | | | Zip: 79701 | | | | | | | | | | | | | | | | | |
| Sampler Name: Peter Van Patten | | | | Phone #: 432-682-3753 | | | | | | | | | | | | | | | | | |
| Fax #: | | | | | | | | | | | | | | | | | | | | | |

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | Chlorides | BTEX | TPH |
|----------|-------------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|----------|----------|------|-----------|------|-----|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | | OTHER | DATE | | | |
| H232183 | FS15 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1015 | ✓ | ✓ | ✓ |
| 1 | FS16 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1020 | ✓ | ✓ | ✓ |
| 2 | FS17 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1000 | ✓ | ✓ | ✓ |
| 3 | FS18 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1005 | ✓ | ✓ | ✓ |
| 4 | FS19 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1125 | ✓ | ✓ | ✓ |
| 5 | FS20 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1130 | ✓ | ✓ | ✓ |
| 6 | FS21 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1135 | ✓ | ✓ | ✓ |
| 7 | FS22 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1140 | ✓ | ✓ | ✓ |
| 8 | FS23 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1250 | ✓ | ✓ | ✓ |
| 9 | FS24 | 1.0' | C | 1 | | | ✓ | | | ✓ | 5-1-23 | 1255 | ✓ | ✓ | ✓ |

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | | |
|------------------------------|-------------------------|---|---|--|
| Relinquished By: | Date: 5-3-23 | Received By: | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Add'l Phone #: |
| <i>Peter Van Patten</i> | Time: 12:15 | <i>S. Prodrigney</i> | All Results are emailed. Please provide Email address: | |
| Relinquished By: | Date: | Received By: | hgren@ensdum.com, t.morrissey@ensdum.com | |
| | Time: | | REMARKS: | |
| Delivered By: (Circle One) | Observed Temp. °C: 1.4 | Sample Condition: Cool Intact | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> | Bacteria (only) Sample Condition: Cool Intact |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C: 0.8 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID #113 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | Correction Factor: -0.5°C | Observed Temp. °C |
| | | | | Corrected Temp. °C |

FORM-008 R 3.2 10/07/21

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | | | |
|--|-----------------------------------|---|--|---|---|
| Relinquished By: <i>Peter Van Fatta</i> | | Date: <i>5-3-23</i> | Received By: <i>Sfodrigney</i> | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: | |
| Relinquished By: | | Time: <i>1215</i> | | All Results are emailed. Please provide Email address: <i>hgreen@ensolum.com, tmorrissey@ensolum.com</i> | |
| Relinquished By: | | Date: | Received By: | REMARKS: | |
| Relinquished By: | | Time: | | REMARKS: | |
| Delivered By: (Circle One) | Observed Temp. °C <i>1.42</i> | Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> | CHECKED BY: (Initials) <i>SK</i> | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> | Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C <i>0.82</i> | Yes <input type="checkbox"/> No <input type="checkbox"/> | | Thermometer ID #113 Correction Factor -0.5°C | Observed Temp. °C Corrected Temp. °C |

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

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

May 31, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B WEST

Enclosed are the results of analyses for samples received by the laboratory on 05/03/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|-----------------|-----------------|
| SW 02 0'-3' | H232187-01 | Soil | 03-May-23 09:55 | 03-May-23 13:30 |
| FS 30 1.5' | H232187-02 | Soil | 03-May-23 09:25 | 03-May-23 13:30 |
| FS 31 1.5' | H232187-03 | Soil | 03-May-23 09:30 | 03-May-23 13:30 |
| FS 32 1.5' | H232187-04 | Soil | 03-May-23 09:35 | 03-May-23 13:30 |
| FS 33 1.5' | H232187-05 | Soil | 03-May-23 09:40 | 03-May-23 13:30 |
| FS 34 1.5' | H232187-06 | Soil | 03-May-23 09:45 | 03-May-23 13:30 |
| FS 35 1.5' | H232187-07 | Soil | 03-May-23 09:50 | 03-May-23 13:30 |
| FS 36 1.0' | H232187-08 | Soil | 03-May-23 10:30 | 03-May-23 13:30 |
| FS 37 1.0' | H232187-09 | Soil | 03-May-23 10:35 | 03-May-23 13:30 |
| FS 38 1.0' | H232187-10 | Soil | 03-May-23 10:40 | 03-May-23 13:30 |
| FS 39 1.0' | H232187-11 | Soil | 03-May-23 10:45 | 03-May-23 13:30 |
| FS 40 1.0' | H232187-12 | Soil | 03-May-23 10:50 | 03-May-23 13:30 |
| FS 41 1.0' | H232187-13 | Soil | 03-May-23 10:55 | 03-May-23 13:30 |
| FS 42 1.0' | H232187-14 | Soil | 03-May-23 11:00 | 03-May-23 13:30 |
| FS 43 1.0' | H232187-15 | Soil | 03-May-23 11:05 | 03-May-23 13:30 |
| FS 44 1.0' | H232187-16 | Soil | 03-May-23 11:10 | 03-May-23 13:30 |
| FS 14 1.0' | H232187-17 | Soil | 03-May-23 11:15 | 03-May-23 13:30 |

05/31/23 - Client changed the sample ID on -17 (see COC). This is the revised report and will replace the one sent on 05/08/23.

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

SW 02 0'-3'
H232187-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 112 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050335 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050335 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050335 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050335 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050335 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | 108 % | | 71.5-134 | | 3050335 | JH | 05-May-23 | 8021B | |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | 91.4 % | | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | 97.0 % | | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|-------------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 30 1.5'
H232187-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 368 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 113 % | | 71.5-134 | 3050419 | JH | 05-May-23 | 8021B | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 86.2 % | | 48.2-134 | 3050331 | MS | 04-May-23 | 8015B | |
|---------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 90.7 % | | 49.1-148 | 3050331 | MS | 04-May-23 | 8015B | |
|-------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 31 1.5'
H232187-03 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 107 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 93.0 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 99.8 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 32 1.5'
H232187-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 107 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 86.1 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 92.3 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 33 1.5'
H232187-05 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 108 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 93.9 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 103 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 34 1.5'
H232187-06 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 80.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 112 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 87.3 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 94.4 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 35 1.5'
H232187-07 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 109 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 94.3 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 101 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 36 1.0'
H232187-08 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 117 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 82.7 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 91.9 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 37 1.0'
H232187-09 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 105 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 84.9 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 92.3 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 38 1.0'
H232187-10 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 108 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 89.6 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 97.7 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 39 1.0'
H232187-11 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 109 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050331 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 93.3 % | 48.2-134 | | 3050331 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 102 % | 49.1-148 | | 3050331 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 40 1.0'
H232187-12 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 110 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 88.4 % | 48.2-134 | | 3050424 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 83.7 % | 49.1-148 | | 3050424 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 41 1.0'
H232187-13 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 80.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 105 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 99.2 % | 48.2-134 | | 3050424 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 93.3 % | 49.1-148 | | 3050424 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 42 1.0'
H232187-14 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050419 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 109 % | 71.5-134 | | 3050419 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 86.8 % | 48.2-134 | | 3050424 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 84.7 % | 49.1-148 | | 3050424 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 43 1.0'
H232187-15 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 112 | | 16.0 | mg/kg | 4 | 3050439 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | |
|----------------|--------|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | |
|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | 107 % | | 71.5-134 | 3050420 | JH | 05-May-23 | 8021B | |
|--|--|-------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | |
|------------------|-------|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | |
|----------------------------------|--|--------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | 96.1 % | | 48.2-134 | 3050424 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | |
|--------------------------------------|--|--------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | 90.4 % | | 49.1-148 | 3050424 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--------|--|----------|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 44 1.0'
H232187-16 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 80.0 | | 16.0 | mg/kg | 4 | 3050440 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 108 % | 71.5-134 | | 3050420 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 84.4 % | 48.2-134 | | 3050424 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 83.2 % | 49.1-148 | | 3050424 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

FS 14 1.0'
H232187-17 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 | | 16.0 | mg/kg | 4 | 3050440 | AC | 04-May-23 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3050420 | JH | 05-May-23 | 8021B | |

| | | | | | | | | | | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 110 % | 71.5-134 | | 3050420 | JH | 05-May-23 | 8021B | |
|--|--|--|-------|----------|--|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3050424 | MS | 04-May-23 | 8015B | |

| | | | | | | | | | | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> | | | 97.8 % | 48.2-134 | | 3050424 | MS | 04-May-23 | 8015B | |
|----------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 95.9 % | 49.1-148 | | 3050424 | MS | 04-May-23 | 8015B | |
|--------------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

Inorganic Compounds - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|-----------------|-------|--------------------------------|---------------|------|-------------|------|-----------|-------|
| Batch 3050439 - 1:4 DI Water | | | | | | | | | | |
| Blank (3050439-BLK1) | | | | Prepared & Analyzed: 04-May-23 | | | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | | |
| LCS (3050439-BS1) | | | | Prepared & Analyzed: 04-May-23 | | | | | | |
| Chloride | 400 | 16.0 | mg/kg | 400 | | 100 | 80-120 | | | |
| LCS Dup (3050439-BSD1) | | | | Prepared & Analyzed: 04-May-23 | | | | | | |
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | 3.92 | 20 | |
| Batch 3050440 - 1:4 DI Water | | | | | | | | | | |
| Blank (3050440-BLK1) | | | | Prepared & Analyzed: 04-May-23 | | | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | | |
| LCS (3050440-BS1) | | | | Prepared & Analyzed: 04-May-23 | | | | | | |
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | | | |
| LCS Dup (3050440-BSD1) | | | | Prepared & Analyzed: 04-May-23 | | | | | | |
| Chloride | 432 | 16.0 | mg/kg | 400 | | 108 | 80-120 | 3.77 | 20 | |

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 3050335 - Volatiles**Blank (3050335-BLK1)**

Prepared: 03-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0513 | | mg/kg | 0.0500 | | 103 | 71.5-134 | | | |

LCS (3050335-BS1)

Prepared: 03-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | 1.88 | 0.050 | mg/kg | 2.00 | | 93.8 | 81.4-118 | | | |
| Toluene | 1.92 | 0.050 | mg/kg | 2.00 | | 96.0 | 88.7-121 | | | |
| Ethylbenzene | 2.06 | 0.050 | mg/kg | 2.00 | | 103 | 86.1-120 | | | |
| m,p-Xylene | 4.00 | 0.100 | mg/kg | 4.00 | | 100 | 88.2-124 | | | |
| o-Xylene | 2.00 | 0.050 | mg/kg | 2.00 | | 100 | 84.9-118 | | | |
| Total Xylenes | 6.00 | 0.150 | mg/kg | 6.00 | | 100 | 87.3-122 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0527 | | mg/kg | 0.0500 | | 105 | 71.5-134 | | | |

LCS Dup (3050335-BS1)

Prepared: 03-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|-------|------|--|
| Benzene | 1.86 | 0.050 | mg/kg | 2.00 | | 92.8 | 81.4-118 | 1.13 | 15.8 | |
| Toluene | 1.95 | 0.050 | mg/kg | 2.00 | | 97.4 | 88.7-121 | 1.52 | 15.9 | |
| Ethylbenzene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 86.1-120 | 1.39 | 16 | |
| m,p-Xylene | 4.05 | 0.100 | mg/kg | 4.00 | | 101 | 88.2-124 | 1.27 | 16.2 | |
| o-Xylene | 2.01 | 0.050 | mg/kg | 2.00 | | 100 | 84.9-118 | 0.448 | 16.7 | |
| Total Xylenes | 6.06 | 0.150 | mg/kg | 6.00 | | 101 | 87.3-122 | 0.999 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0546 | | mg/kg | 0.0500 | | 109 | 71.5-134 | | | |

Batch 3050419 - Volatiles**Blank (3050419-BLK1)**

Prepared: 04-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------|----|-------|-------|--|--|--|--|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 3050419 - Volatiles**Blank (3050419-BLK1)**

Prepared: 04-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0536 | | mg/kg | 0.0500 | | 107 | 71.5-134 | | | |

LCS (3050419-BS1)

Prepared: 04-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | 1.91 | 0.050 | mg/kg | 2.00 | | 95.6 | 81.4-118 | | | |
| Toluene | 1.96 | 0.050 | mg/kg | 2.00 | | 98.1 | 88.7-121 | | | |
| Ethylbenzene | 2.13 | 0.050 | mg/kg | 2.00 | | 107 | 86.1-120 | | | |
| m,p-Xylene | 4.16 | 0.100 | mg/kg | 4.00 | | 104 | 88.2-124 | | | |
| o-Xylene | 2.06 | 0.050 | mg/kg | 2.00 | | 103 | 84.9-118 | | | |
| Total Xylenes | 6.22 | 0.150 | mg/kg | 6.00 | | 104 | 87.3-122 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0552 | | mg/kg | 0.0500 | | 110 | 71.5-134 | | | |

LCS Dup (3050419-BS1)

Prepared: 04-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Benzene | 1.82 | 0.050 | mg/kg | 2.00 | | 91.0 | 81.4-118 | 4.94 | 15.8 | |
| Toluene | 1.87 | 0.050 | mg/kg | 2.00 | | 93.5 | 88.7-121 | 4.85 | 15.9 | |
| Ethylbenzene | 2.02 | 0.050 | mg/kg | 2.00 | | 101 | 86.1-120 | 5.20 | 16 | |
| m,p-Xylene | 3.96 | 0.100 | mg/kg | 4.00 | | 99.0 | 88.2-124 | 5.01 | 16.2 | |
| o-Xylene | 1.95 | 0.050 | mg/kg | 2.00 | | 97.7 | 84.9-118 | 5.40 | 16.7 | |
| Total Xylenes | 5.91 | 0.150 | mg/kg | 6.00 | | 98.5 | 87.3-122 | 5.14 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0530 | | mg/kg | 0.0500 | | 106 | 71.5-134 | | | |

Batch 3050420 - Volatiles**Blank (3050420-BLK1)**

Prepared: 04-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0551 | | mg/kg | 0.0500 | | 110 | 71.5-134 | | | |

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 3050420 - Volatiles**LCS (3050420-BS1)**

Prepared: 04-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------|------|-------|-------|------|--|-----|----------|--|--|--|
| Benzene | 2.07 | 0.050 | mg/kg | 2.00 | | 104 | 81.4-118 | | | |
| Toluene | 2.01 | 0.050 | mg/kg | 2.00 | | 101 | 88.7-121 | | | |
| Ethylbenzene | 2.15 | 0.050 | mg/kg | 2.00 | | 107 | 86.1-120 | | | |
| m,p-Xylene | 4.19 | 0.100 | mg/kg | 4.00 | | 105 | 88.2-124 | | | |
| o-Xylene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 84.9-118 | | | |
| Total Xylenes | 6.27 | 0.150 | mg/kg | 6.00 | | 105 | 87.3-122 | | | |

Surrogate: 4-Bromofluorobenzene (PID)

0.0517

mg/kg

0.0500

103

71.5-134

LCS Dup (3050420-BSD1)

Prepared: 04-May-23 Analyzed: 05-May-23

| | | | | | | | | | | |
|---------------|------|-------|-------|------|--|-----|----------|------|------|--|
| Benzene | 2.11 | 0.050 | mg/kg | 2.00 | | 105 | 81.4-118 | 1.59 | 15.8 | |
| Toluene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 88.7-121 | 3.29 | 15.9 | |
| Ethylbenzene | 2.27 | 0.050 | mg/kg | 2.00 | | 114 | 86.1-120 | 5.60 | 16 | |
| m,p-Xylene | 4.45 | 0.100 | mg/kg | 4.00 | | 111 | 88.2-124 | 6.13 | 16.2 | |
| o-Xylene | 2.22 | 0.050 | mg/kg | 2.00 | | 111 | 84.9-118 | 6.38 | 16.7 | |
| Total Xylenes | 6.67 | 0.150 | mg/kg | 6.00 | | 111 | 87.3-122 | 6.21 | 16.3 | |

Surrogate: 4-Bromofluorobenzene (PID)

0.0548

mg/kg

0.0500

110

71.5-134

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 3050331 - General Prep - Organics**Blank (3050331-BLK1)**

Prepared: 03-May-23 Analyzed: 04-May-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chlorooctane | 40.1 | | mg/kg | 49.6 | | 80.8 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 44.3 | | mg/kg | 50.0 | | 88.6 | 49.1-148 | | | |

LCS (3050331-BS1)

Prepared: 03-May-23 Analyzed: 04-May-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | 178 | 10.0 | mg/kg | 200 | | 89.1 | 78.5-124 | | | |
| DRO >C10-C28 | 161 | 10.0 | mg/kg | 200 | | 80.7 | 72.5-126 | | | |
| Total TPH C6-C28 | 340 | 10.0 | mg/kg | 400 | | 84.9 | 77.6-123 | | | |
| Surrogate: 1-Chlorooctane | 42.7 | | mg/kg | 49.6 | | 86.2 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 49.8 | | mg/kg | 50.0 | | 99.5 | 49.1-148 | | | |

LCS Dup (3050331-BS1)

Prepared: 03-May-23 Analyzed: 04-May-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|------|------|--|
| GRO C6-C10 | 180 | 10.0 | mg/kg | 200 | | 90.1 | 78.5-124 | 1.17 | 17.7 | |
| DRO >C10-C28 | 165 | 10.0 | mg/kg | 200 | | 82.4 | 72.5-126 | 2.05 | 21 | |
| Total TPH C6-C28 | 345 | 10.0 | mg/kg | 400 | | 86.2 | 77.6-123 | 1.59 | 18.5 | |
| Surrogate: 1-Chlorooctane | 42.7 | | mg/kg | 49.6 | | 86.3 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 49.9 | | mg/kg | 50.0 | | 99.8 | 49.1-148 | | | |

Batch 3050424 - General Prep - Organics**Blank (3050424-BLK1)**

Prepared & Analyzed: 04-May-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chlorooctane | 43.2 | | mg/kg | 49.6 | | 87.1 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 42.0 | | mg/kg | 50.0 | | 83.9 | 49.1-148 | | | |

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B WEST
Project Number: 03C2012021 (32.06221-103.61441)
Project Manager: HADLIE GREEN
Fax To:

Reported:
31-May-23 12:01

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 3050424 - General Prep - Organics**LCS (3050424-BS1)**

Prepared & Analyzed: 04-May-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | 188 | 10.0 | mg/kg | 200 | | 93.8 | 78.5-124 | | | |
| DRO >C10-C28 | 177 | 10.0 | mg/kg | 200 | | 88.6 | 72.5-126 | | | |
| Total TPH C6-C28 | 365 | 10.0 | mg/kg | 400 | | 91.2 | 77.6-123 | | | |
| Surrogate: 1-Chlorooctane | 46.4 | | mg/kg | 49.6 | | 93.7 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 42.6 | | mg/kg | 50.0 | | 85.1 | 49.1-148 | | | |

LCS Dup (3050424-BS1)

Prepared & Analyzed: 04-May-23

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--------|------|--|
| GRO C6-C10 | 187 | 10.0 | mg/kg | 200 | | 93.5 | 78.5-124 | 0.322 | 17.7 | |
| DRO >C10-C28 | 177 | 10.0 | mg/kg | 200 | | 88.6 | 72.5-126 | 0.0124 | 21 | |
| Total TPH C6-C28 | 364 | 10.0 | mg/kg | 400 | | 91.1 | 77.6-123 | 0.160 | 18.5 | |
| Surrogate: 1-Chlorooctane | 45.9 | | mg/kg | 49.6 | | 92.7 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 42.3 | | mg/kg | 50.0 | | 84.5 | 49.1-148 | | | |

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 or any other cause whatsoever 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 damage 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.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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 or any other cause whatsoever 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 damage 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.

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company Name: Ensolum | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|----------------------------|-----------------|------------------|-------------|------------|------|-----|--------|----------|------------|------------|--------|--------|------|-----------|-----|-----|--|--|--|--|--|--|--|--|
| Project Manager: Hadlie Green | | P.O. #: | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 3122 National Parks Hwy | | Company: BTA Oil Producers | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Carlsbad State: NM Zip: 88220 | | Attn: Nathan Sirgo | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 432-557-8895 Fax #: | | Address: 104 S. Pecos St | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: 03C2012021 Project Owner: | | City: Midland | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Mesa B West | | State: TX Zip: 79701 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: 32.06221, -103.61441 | | Phone #: 432-682-3753 | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Peter Van Ratten | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | Lab I.D. | Sample I.D. | (GRAB OR C)OMP. | # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | | | | | | | | | | | | | | |
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | Chlorides | BTX | TPH | | | | | | | | |
| | H23 2187 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 FS39 | 1.0' | C | 1 | | | ✓ | | | | | ✓ | | 5-3-23 | 1045 | ✓ | ✓ | ✓ | | | | | | | | |
| | 12 FS40 | 1.0' | C | 1 | | | ✓ | | | | | ✓ | | 5-3-23 | 1050 | ✓ | ✓ | ✓ | | | | | | | | |
| | 13 FS41 | 1.0' | C | 1 | | | ✓ | | | | | ✓ | | 5-3-23 | 1055 | ✓ | ✓ | ✓ | | | | | | | | |
| | 14 FS42 | 1.0' | C | 1 | | | ✓ | | | | | ✓ | | 5-3-23 | 1100 | ✓ | ✓ | ✓ | | | | | | | | |
| | 15 FS43 | 1.0' | C | 1 | | | ✓ | | | | | ✓ | | 5-3-23 | 1105 | ✓ | ✓ | ✓ | | | | | | | | |
| | 16 FS44 | 1.0' | C | 1 | | | ✓ | | | | | ✓ | | 5-3-23 | 1110 | ✓ | ✓ | ✓ | | | | | | | | |
| | 17 FS45 14 | 1.0' | C | 1 | | | ✓ | | | | | ✓ | | 5-3-23 | 1115 | ✓ | ✓ | ✓ | | | | | | | | |
| | *SP | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5/30/23 | | | | | | | | | | | | | | | | | | | | | | | | | |

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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|------------------------------|------------------------|---|---|
| Relinquished By: | Date: 5-3-23 | Received By: | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: |
| Peter Van Ratten | Time: 1:30 | Jamara Olden | All Results are emailed. Please provide Email address: |
| Relinquished By: | Date: | Received By: | hgreen@ensolum.com, tmoirisey@ensolum.com |
| | Time: | | REMARKS: |
| | | | *customer requested sample ID change. 5/30/23 |
| Delivered By: (Circle One) | Observed Temp. °C 6.3 | Sample Condition | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C 5.7 | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No | Bacteria (only) Sample Condition |
| | | | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No |
| | | | Observed Temp. °C |
| | | | Corrected Temp. °C |
| | | | Thermometer ID #113 |
| | | | Correction Factor -0.6°C |

FORM-006 R 3.3 07/18/22

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



APPENDIX E

NMOCD Notifications

From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 03/13/2023
Date: Wednesday, March 8, 2023 5:17:29 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

[**EXTERNAL EMAIL**]

No problem! Thank you for the clarification.

JH

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




From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, March 8, 2023 4:17 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 03/13/2023

Hi,

My apologies, I didn't change the week date in the text itself. These sampling activities are scheduled for next week, March 13, 2023.

Thank you,



Hadlie Green
Project Manager
432-557-8895
hgreen@ensolum.com
Ensolum, LLC
in f 

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, March 8, 2023 5:15 PM
To: Hadlie Green <hgreen@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 03/13/2023

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. Were you intending on giving notification for next week 3/13/2023? This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, March 8, 2023 1:48 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 03/13/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of March 6, 2023.

- Mesa Dolphin Produced Water Poly Line/ nAPP2303736433
- Mesa B East NGL Water Transfer Line/ nAPP2235558643
- Mesa B West Burned Poly Line / nAPP2303737335

Thank you,

From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 04/03/2023
Date: Friday, March 31, 2023 10:08:11 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

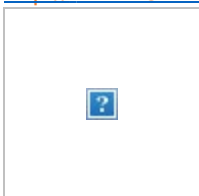
[**EXTERNAL EMAIL**]

Hadlie,

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

JH

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, March 30, 2023 8:42 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 04/03/2023

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

All,

BTA anticipates collecting confirmation samples at the following location the week of April 3, 2023.

- Mesa B West – Burned Water Transfer Poly Line / nAPP2303737335
 - Sampling Date: 4/5-7/2023 @ 8:00 AM MST

Thank you,



Hadlie Green

Project Manager

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 04/10/2023
Date: Thursday, April 6, 2023 2:00:40 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

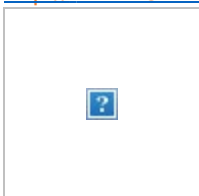
[**EXTERNAL EMAIL**]

Hadlie,

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

JH

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, April 6, 2023 9:02 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bob Hall <bhall@btaoil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 04/10/2023

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

All,

BTA anticipates collecting confirmation samples at the following location the week of April 10, 2023.

- Mesa B West – Burned Water Transfer Poly Line / nAPP2303737335
 - Sampling Date: 4/10-11/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



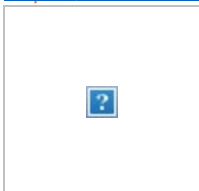
From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 04/17/2023
Date: Friday, April 14, 2023 10:36:22 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Hadlie,

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

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, April 13, 2023 8:48 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 04/17/2023

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

All,

BTA anticipates collecting confirmation samples at the following location the week of April 17, 2023.

- Mesa B West – Burned Water Transfer Poly Line / nAPP2303737335
 - Sampling Date: 4/17-18/2023 @ 9:00 AM MST
- Mesa B East NGL Water Transfer Line / nAPP2235558643
 - Sampling Date: 4/19-20/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 04/24/2023
Date: Thursday, April 20, 2023 4:31:51 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, April 20, 2023 2:30 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 04/24/2023

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

All,

BTA anticipates collecting confirmation samples at the following location the week of April 17, 2023.

- Mesa B West – Burned Water Transfer Poly Line / nAPP2303737335
 - Sampling Date: 4/24-26/2023 @ 9:00 AM MST
- Mesa B East NGL Water Transfer Line / nAPP2235558643

- Sampling Date: 4/25-26/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Nobui, Jennifer, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Harimon, Jocelyn, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: FW: [EXTERNAL] BTA - Extension Request - Mesa B West - Burned Water Transfer Poly Line (Incident Number nAPP2303737335)
Date: Friday, April 28, 2023 3:36:57 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Sent: Friday, April 28, 2023 2:27 PM

Hello Hadlie,

OCD approves your 90-day extension request to August 4, 2023 to submit a remediation plan or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Hadlie Green <hgreen@ensolum.com>

Sent: Thursday, April 27, 2023 12:10 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>;
nsirgo@btaoil.com

Subject: [EXTERNAL] BTA - Extension Request - Mesa B West - Burned Water Transfer Poly Line (Incident Number nAPP2303737335)

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

All,

BTA is requesting an extension for the current deadline of May 6, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Mesa B West – Burned Water Transfer Poly Line (Incident Number nAPP2303737335). The release was discovered on February 5, 2023. Initial site assessment activities have been completed and excavation activities are ongoing. In order to complete additional remediation activities and submit a remediation work plan or closure report, BTA requests a 90-day extension of this deadline until August 4, 2023.

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC





APPENDIX F

Final C-141

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

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

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

| | |
|----------------|----------------|
| Incident ID | nAPP2303737335 |
| District RP | |
| Facility ID | fAPP2135655250 |
| Application ID | |

Release Notification

Responsible Party

| | |
|--|---|
| Responsible Party: BTA Oil Producers, LLC | OGRID: 260297 |
| Contact Name: Bob Hall | Contact Telephone: 432-682-3753 |
| Contact email: bhall@btaoil.com | Incident # (assigned by OCD) nAPP2303737335 |
| Contact mailing address: 104 S. Pecos St., Midland, TX 79701 | |

Location of Release Source

Latitude: 32.06221 Longitude: -103.61441

(NAD 83 in decimal degrees to 5 decimal places)

| | |
|--|------------------------------------|
| Site Name: Mesa B West – Burned Water Transfer Poly Line | Site Type: Tank Battery |
| Date Release Discovered: 2/5/2023 | API# (if applicable) Nearest well: |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| C | 7 | 26S | 33E | Lea |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name:)

Nature and Volume of Release

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

| | | |
|--|--|---|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 56 BBL | Volume Recovered (bbls) 1 BBL |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Gas feed line ruptured and caused a fire that burned the 8" poly line used for water transfer.
Recovered 1 BW.

(Spill Calculation Spreadsheet attached.)

State of New Mexico
Oil Conservation Division

| | |
|----------------|----------------|
| Incident ID | nAPP2303737335 |
| District RP | |
| Facility ID | fAPP2135655250 |
| Application ID | |

| | |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? Volume of release exceeded 25 BBL fluid. This release was the result of a fire. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was provided by NOR filed on 2/6/2023 via the NMOCD Permitting Website. | |

Initial Response

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

| | |
|--|--------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: Bob Hall Title: Environmental Manager | |
| Signature: <u>Bob Hall</u> | Date: 2/14/2023 |
| email: bhall@btaoil.com | Telephone: 432-682-3753 |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |



Release Volume Calculator

This calculator estimates a spill volume based on the size and estimated saturation of the spill.

Location/Site Name Mesa B West Water Transfer Line
GPS Coordinates 32.06221,-103.61441
Spill Date and Time 2/5/2023

Instructions: Input the spill parameters (dimensions) in **blue** text, and the spreadsheet calculates a potential spill volume. Other parameters can be changed as appropriate.

Area 16,800 square feet
 Saturation (or depth) 1.5 inches
 Percent Hydrocarbon 0 % Hydrocarbon (0-100)
 Porosity (choose one) 0.15

Saturated Soil Volume 77.78 cubic yards

| | |
|-------------------------|---------------|
| Total Hydrocarbon (oil) | 0.00 barrels |
| Total Produced Water | 56.10 barrels |

| Types of Soil | Porosity Factor |
|---------------------|-----------------|
| Sand | 0.20 |
| Clay | 0.05 |
| Clay/Silt-Sandy Mix | 0.15 |
| Caliche | 0.03 |
| Gravel | 0.25 |
| Unknown | 0.25 |

| Area Name (ft2) | Saturation Depth (in) | Total Oil (bbls) | Total Water (bbls) |
|-----------------------------|-----------------------|------------------|--------------------|
| Stained Area (16,800 sq ft) | 1.5 | 0 | 56.1 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Totals: | | 0 | 56.1 |
| Total Volume Released: | | | 56.1 |

| | |
|----------------|----------------|
| Incident ID | NAPP2303737335 |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>51-100</u> (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

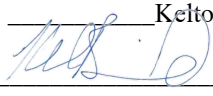
State of New Mexico
Oil Conservation Division

Page 4

| | |
|----------------|----------------|
| Incident ID | NAPP2303737335 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Kelton Beaird Title: Environmental Manager

Signature:  Date: 07/19/2023

email: KBeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 7/20/2023

| | |
|----------------|----------------|
| Incident ID | NAPP2303737335 |
| District RP | |
| Facility ID | |
| Application ID | |


Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kelton Beaird Title: Environmental Manager
Signature:  Date: 07/19/2023
email: KBeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 7/20/2023

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

Closure Approved by:  Date: 10/13/2023
Printed Name: Nelson Velez Title: Environmental Specialist – Adv

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

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

CONDITIONS

Action 242264

CONDITIONS

| | |
|---|---|
| Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701 | OGRID: 260297 |
| | Action Number: 242264 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| nvelez | None | 10/13/2023 |