E N S O L U M

February 4, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Work Plan Big Eddy Unit 248H and 249H Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071 API: 30-015-40714 & 30-015-40715 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* (*Work Plan*) to document the assessment and delineation activities completed to date and propose a plan to address impacted soil identified at the Big Eddy Unit 248H and Big Eddy Unit 249H (Site), where a total of four releases occurred on the same pad. The purpose of the assessment and delineation activities was to assess the lateral and vertical extent of impacted soil resulting from multiple releases of produced water and crude oil at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent areas.

SITE DESCRIPTION AND RELEASE BACKGROUND

All releases occurred in Eddy County, New Mexico (32.62087°, -103.83145°), at the Big Eddy Unit 248H and Big Eddy Unit 249H wellhead locations. Release extent areas located west of the wellheads are located in Unit A, Section 35, Township 19 South, Range 31 East, and are associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). Release extent areas located east of the wellheads are located in Unit D, Section 36, Township 19 South, and Range 31 on State Land managed by New Mexico State Land Office (SLO) under Lease ID V0-6323-0003.

Incident Number: nAPP2418043567

On June 21, 2024, the packing on the wellhead stuffing box failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture following the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number nAPP2418043567.

On September 20, 2024, XTO submitted a Remediation Work Plan (*September 2024 Work Plan*) to the NMOCD describing Site assessment and delineation activities completed. The *September 2024 Work Plan* proposed the following remediation activities:

- Excavation of an estimated 1,500 cubic yards of total petroleum hydrocarbon (TPH)- and chloride-impacted soil to be removed;
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment; and
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

On November 6, 2024, NMOCD approved the September 2024 Work Plan with the following conditions:

All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area will need confirmation floor/sidewall samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.

On January 16, 2025, and after Site discussions with the NMOCD, XTO requested a sampling variance for the "area of investigation" confirmation floor soil sample size to be 1,000 square feet. The NMOCD approved the sampling variance the same day.

Incident Numbers: nAPP2432147637, nAPP2432531235, and nAPP2502042071

On November 16, 2024, the packing on the stuffing box of the Big Eddy Unit 249H well failed, resulting in the release of approximately 10 bbls of crude oil onto the surface of the well pad. No fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 16, 2024. The release was assigned Incident Number nAPP2432147637.

On November 19, 2024, an equipment failure at the Big Eddy Unit 248H wellhead resulted in the release of approximately 22 bbls of crude oil and 1 bbls of produced water onto the surface of the well pad. Four bbls of fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2432531235.

On January 17, 2025, an equipment failure at the Big Eddy Unit 249H wellhead resulted in the release of approximately 33 bbls of crude oil and 29 bbls of produced water onto the surface of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 35 bbls of fluids were recovered. Furthermore, approximately 73 thousand cubic feet (Mcf) of natural gas were vented during the release. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2502042071.

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 below.



Based on the results of the Site Characterization, presented in the approved *September 2024 Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

Since the release occurred on the well pad in the area governed by SLO, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with these releases.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. A review of the Bureau of Land Management (BLM) New Mexico Plant Wildlife Habitat maps indicated potential habitats for Dunes Sage Brush Lizard and Lesser Prairie Chicken near the Site. Threatened and endangered species are potentially present in the area surrounding the Site; however, no native vegetation outside of the well pad extent will be disturbed during remediation activities.
 - From March 1st through June 15th, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.
- No sensitive receptors were identified near the Site as determined by the Site Characterization. The strictest Table I Closure Criteria is being applied to the Site due to a lack of recent depth to groundwater within 0.5 miles.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Wink loamy fine sand. The Wink loamy fine sand is not considered a sensitive soil per the SLO guidelines. The release occurred on the caliche surface of the well pad limiting contact with potentially sensitive native soil.

SITE ASSESSMENT ACTIVITIES

On November 20, 2024 and January 17, 2025, Ensolum personnel conducted Site assessment activities to evaluate the three additional releases based on information provided on the C-141 and visual observations. Ensolum personnel mapped the four releases utilizing a handheld Global Positioning System (GPS) unit. It was confirmed that the November 2024 and January 2025 releases overlapped the proposed area of excavation presented in the *September 2024 Work Plan*, but did not overlap the area of investigation. All release extent areas are depicted on Figure 1. Both November 2024 release extents covered the same area and are presented on Figure 1 as a single release extent.



ADDITIONAL DELINEATION SOIL SAMPLING ACTIVITIES

On January 31, 2025, Ensolum conducted delineation activities. Five potholes (PH01 through PH05) were advanced within the release extent via backhoe to a maximum depth of 9 feet below ground surface (bgs). Discrete soil samples were collected from each delineation pothole at depths ranging from 0.5 feet to 9 feet bgs. Due to open excavations from ongoing remediation activities conducted for Incident Number nAPP2418043567, delineation pothole PH01 was advanced in the open excavation where discrete soil sampling started at 5 feet bgs and delineation pothole PH04 began at 1-foot bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach[®] chloride QuanTab[®] test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix A. Delineation pothole locations are depicted on Figure 1. Photographic documentation was completed during all Site visits and is presented on a Photographic Log included in Appendix B.

The delineation 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 consituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples collected in PH01, collected on January 31, 2025, indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results for soil sample PH02, collected at 1-foot bgs on January 31, 2025, contained elevated TPH concentrations that were within range of the concentrations detected from a sample collected from the same location in 2024. Laboratory analytical results for pothole PH03 indicated chloride concentrations exceeded Closure Criteria at 1-foot bgs but were in compliance with Closure Criteria at 4 feet bgs, successfully defining the vertical extent of that release area. Delineation soil sample PH04, collected at 4 feet bgs, indicated TPH and chloride concentrations exceeded Closure Criteria. The soil sample collected from PH05 at 1-foot bgs contained elevated BTEX, TPH, and chloride concentrations. The sample collected one foot deeper (PH05 at 2 feet bgs) did not exceed Closure Criteria for VOCs, but remained elevated for chloride. All other delineation soil samples collected on January 31, 2025, indicated COC concentrations were in compliance with Closure Criteria. All laboratory analytical results are summarized on Table 1. This includes all soil samples collected before January 31, 2025, which are presented in the *September 2024 Work Plan* included in Appendix C. All laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicated soil containing elevated BTEX, TPH, and chloride concentrations exists across an approximate 34,375 square foot area in the release extents on pad and extends to depths ranging from 0.5 feet to 4 feet bgs. As such, XTO proposes to complete the following remediation activities:

• Excavation of impacted soil will proceed vertically and laterally until confirmation floor and sidewall soil samples confirm all COC concentrations are compliant with the Closure Criteria. The proposed excavation extent is depicted in Figure 2;



- An estimated 3,800 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal;
- As stated in the approved sampling variance for Incident Number nAPP2418043567, the "area of investigation" will be composite sampled in a 1,000 square-foot sampling frequency. The initial proposed excavation for Incident Number nAPP2418043567 will be sampled in a 200 square-foot sampling frequency. The approved sampling variance email is provided in Appendix E;
- Due to the size of the release extent for the November 2024 and January 2025 releases, XTO requests a variance for the frequency of confirmation soil samples. XTO proposes 5-point composite soil samples to be collected at a sampling frequency of 400 square feet along the excavation floor, outside of the June 21, 2024 release extent area, and a sampling frequency of 200 square feet along all excavation sidewalls. The proposed sampling frequency would reduce the total number of samples from approximately 395 confirmation soil samples (200 square feet) to approximately 339 confirmation soil samples. The soil samples will be handled and submitted for the same COCs described above. The NMOCD approved sampling grid is presented on Figure 2 and the newly proposed sampling grid is presented on Figure 3; and,
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment.

XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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

Sincerely, Ensolum, LLC

Tree Hittant

Tracy Hillard Project Engineer

cc: Ashley McAfee, XTO Kaylan Dirkx, XTO New Mexico State Land Office Bureau of Land Management

Appendices:

- Figure 1 Delineation Soil Sample Locations
- Figure 2 Proposed Excavation Extent 200 Square Foot Frequency
- Figure 3 Proposed Excavation Extent 400 Square Foot Frequency
- Table 1Soil Sample Analytical Results
- Appendix A Lithologic / Soil Sampling Logs
- Appendix B Photographic Log
- Appendix C Remediation Work Plan; dated September 20, 2024



Ashley L. ager

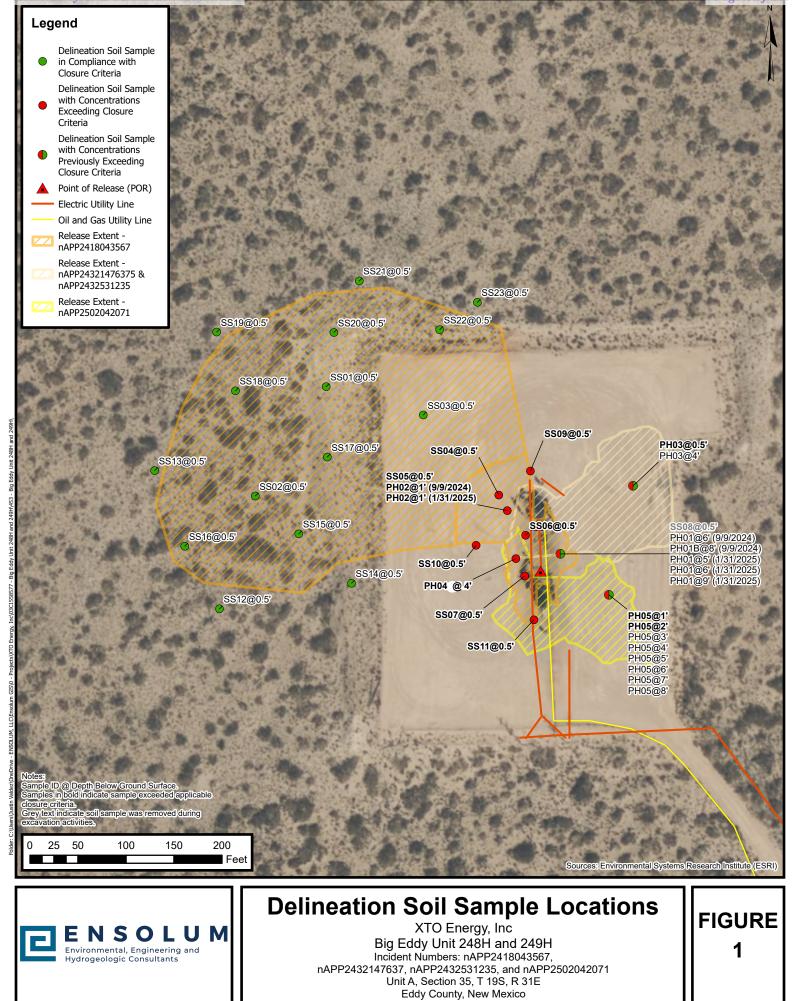
Ashley Ager, PG, MS Principal

Appendix DLaboratory Analytical Reports & Chain-of-Custody DocumentationAppendix ENMOCD Correspondence

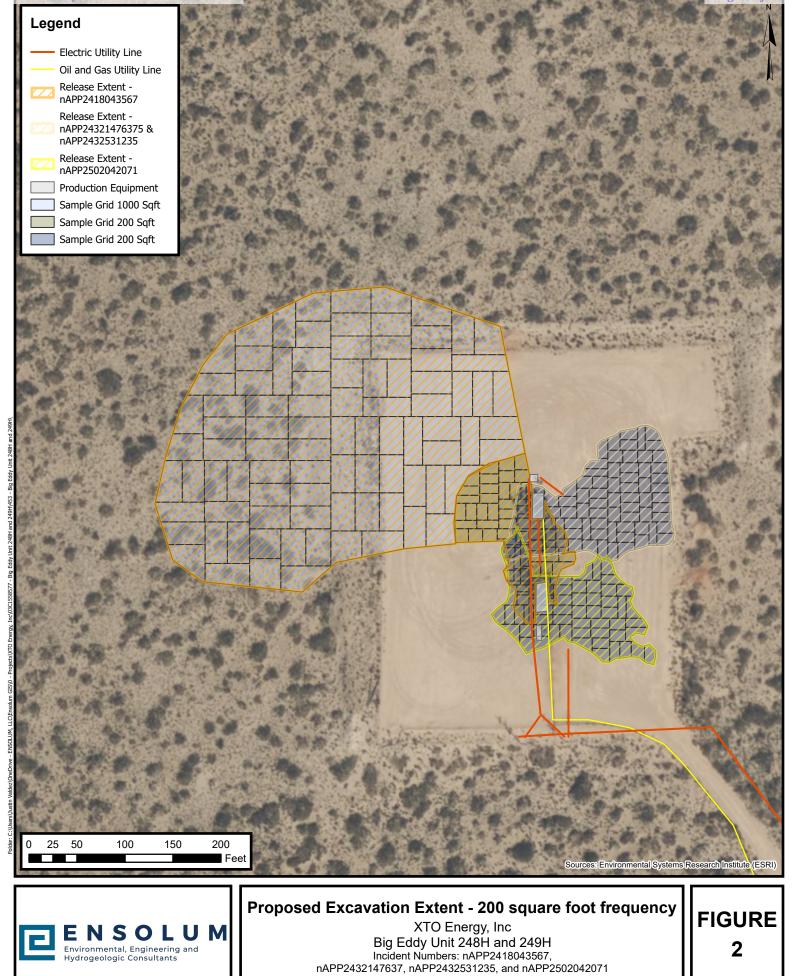




FIGURES

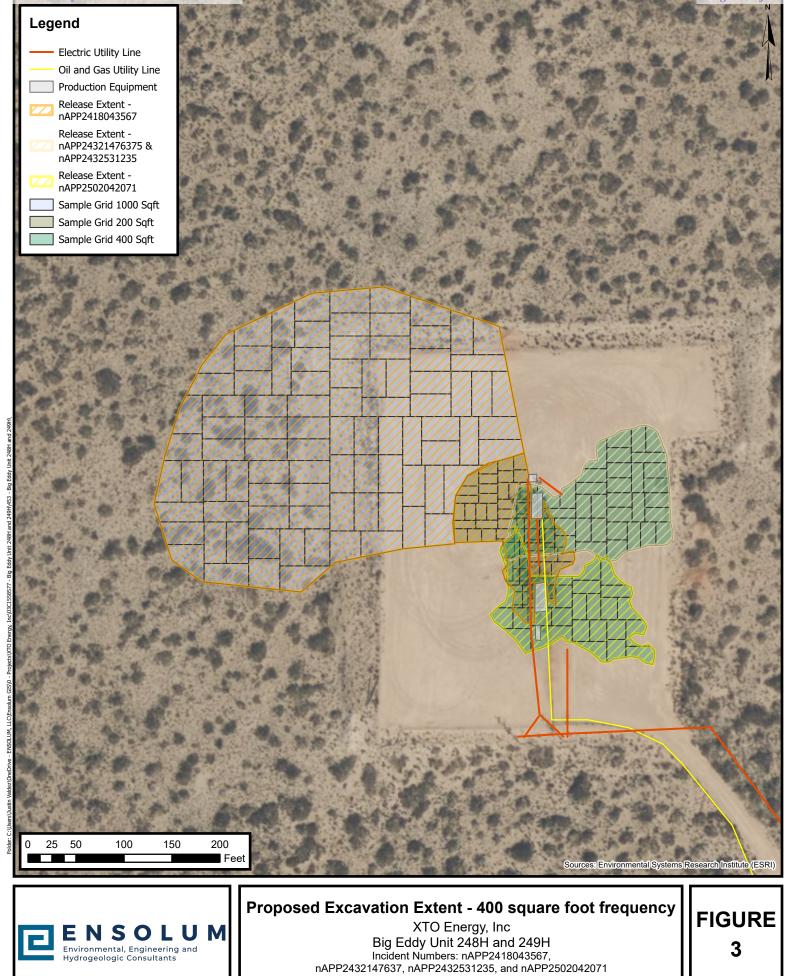


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Unit A, Section 35, T 19S, R 31E Eddy County, New Mexico

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Unit A, Section 35, T 19S, R 31E Eddy County, New Mexico

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TABLES

ENSOLUM

| | TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 248H and 249H XTO Energy, Inc Eddy 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 C | Closure Criteria (I | NMAC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 | | | |
| | | I | | Delir | neation Soil Sa | mples | | | 1 | | | | |
| SS01 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | | |
| SS02 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | | |
| SS03 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 240 | | | |
| SS04 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 182 | 55.3 | 182 | 237 | 560 | | | |
| SS05 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 1,870 | 465 | 1,870 | 2,335 | 1,650 | | | |
| PH02 | 09/09/2024 | 1 | <0.050 | <0.300 | <10.0 | 87.4 | 13.3 | 87.4 | 101 | 192 | | | |
| PH02 | 01/31/2025 | 1 | <0.050 | <0.300 | <10.0 | 135 | 54.7 | 135 | 190 | 176 | | | |
| SS06 | 07/29/2024 | 0.5 | <0.050 | 5.16 | 75.7 | 2,710 | 613 | 2,786 | 3,399 | 1,250 | | | |
| SS07 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 640 | | | |
| SS08 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 13,600 | | | |
| PH01 | 09/09/2024 | 6 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 752 | | | |
| PH01B | 09/09/2024 | 8 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 | | | |
| PH01 | 01/31/2025 | 5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 224 | | | |
| PH01 | 01/31/2025 | 6 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 256 | | | |
| PH01 | 01/31/2025 | 9 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 144 | | | |
| SS09 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,060 | | | |
| SS10 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,570 | | | |
| SS11 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,060 | | | |
| SS12 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | | |
| SS13 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | | |
| SS14 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | | |
| SS15 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS16 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS17 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS18 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS19 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |

| | TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 248H and 249H XTO Energy, Inc Eddy 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 C | Closure Criteria (I | NMAC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 | | | | |
| SS20 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | | |
| SS21 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | | |
| SS22 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | | |
| SS23 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | | |
| PH03 | 01/31/2025 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 4,040 | | | | |
| PH03 | 01/31/2025 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 | | | | |
| PH04 | 01/31/2025 | 4 | <0.050 | <0.300 | <10.0 | 179 | 41.8 | 179 | 221 | 1,010 | | | | |
| PH05 | 01/31/2025 | 1 | 1.15 | 53.1 | 419 | 1,550 | 277 | 1,969 | 2,246 | 2,480 | | | | |
| PH05 | 01/31/2025 | 2 | <0.050 | 0.474 | <10.0 | 20.7 | <10.0 | 20.7 | 20.7 | 640 | | | | |
| PH05 | 01/31/2025 | 3 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 144 | | | | |
| PH05 | 01/31/2025 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | | | |
| PH05 | 01/31/2025 | 5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | | | |
| PH05 | 01/31/2025 | 6 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | | | |
| PH05 | 01/31/2025 | 7 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 | | | | |
| PH05 | 01/31/2025 | 8 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | | | |

Notes:

bgs: below ground surface GRO: Gasoline Range Organics mg/kg: milligrams per kilogram DRO: Diesel Range Organics NMOCD: New Mexico Oil Conservation Division ORO: Oil Range Organics BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes TPH: Total Petroleum Hydrocarbon Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation NMAC: New Mexico Administrative Code

requirement where applicable.

Grey text indicates soil sample removed during excavation activities



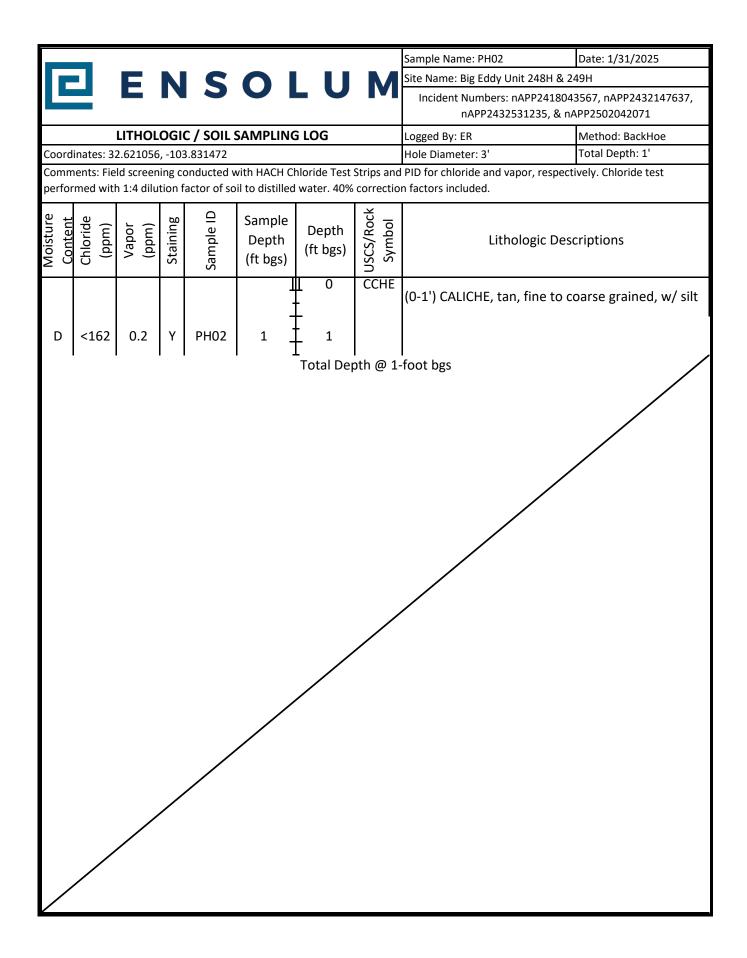
APPENDIX A

Lithologic Soil Sampling Logs

| | | | | | | | | Sample Name: PH01 | Date: 9/9/2024 | | | |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|-----------------------|----------------|---|--------------------------|--|--|--|
| | | | N | | | LU | NA | Site Name: Big Eddy Unit 248H | | | | |
| | | | | | | | | Incident Number: NAPP241804 | 13567 | | | |
| | | | | | | | | Job Number: 03C1558453 | | | | |
| | | | | - | SAMPLING | GLOG | | Logged By: JD | Method: Backhoe | | | |
| | inates: 32 | | | | | | | Hole Diameter: 24" | Total Depth: 8' | | | |
| | | | | | | | | PID for chloride and vapor, resp ion factor is included. | pectively. Chloride test | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Lithologic I | Descriptions | | | | | |
| D | 12,611 | 0.0 | N | SS08 | 0.5 | | CCHE | (0-8') CALICHE, tan, fine well sorted, no odor | grained, some sand, | | | |
| | | | | | - - - - - - | 2 - 2 - 3 | | | | | | |
| | | | | | | 4 | | Soil excavated to 4' bgs between 9/4/24 and 9/9/2024 | | | | |
| D | 929.6 | 0.0 | | PH01 | - - - - 6 | 5 - - - 6 | | | | | | |
| U | 929.0 | 0.0 | | FUOI | · · · | | | | | | | |
| D | 1,495 | 0.0 | | | - - - | 7 | | | | | | |
| D | <162 | 0.0 | | PH01A | 8 | 8 Total Dep | nth <i>Թ</i> ዩ | feet has | | | | |
| \vdash | | | | | | | 501 @ 0 | ieel ngo | | | | |
| | | | _ | | | | | | | | | |
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| i | | | | | | | | Sample Name:PH01 | Date: 1/31/2025 | | |
|---------------------|----------------------------|--------------------------|------------------|--------------|---|------------|--------------|--|-----------------------------------|--|--|
| | | | | | | | | Site Name: Big Eddy Unit 248F | | | |
| | | | N | 5 | 0 | | Μ | | 18043567, nAPP2432147637, | | |
| | | | | | | | | | & nAPP2502042071 | | |
| | | | | - | SAMPLING | G LOG | | Logged By: ER | Method: BackHoe | | |
| | inates: 32 | | | | | | | Hole Diameter: 3' | Total Depth: 9' | | |
| | | | - | | | | • | PID for chloride and vapor, res n factors included. | spectively. Chloride test | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Lithologic | Descriptions | | | | |
| | | | | | 1 | 0 | | (0-5') Ope | n excavation | | |
| D D D | 274 162 <162 <162 | 0.4 0.4 0.7 0.6 | Y Y Y Y | PH01 PH01 | - - - - - - - - - - - - - - - - - - - | | CCHE | coh | coarse - fine grained, none | | |
| D | <162 | 0.5 | Y | PH01 | 9 | 9 | SP-SC | w | e to medium grained sand /silt | | |
| | | | | | | Total De | pth @ 9 | feet bgs | | | |
| | | | | | | | | | | | |
| | | | _ | | | | | | | | |
| | | | | | | | | | | | |

| | | | | | | | | Sample Name: PH02 | Date: 9/9/2024 |
|---------------------|-------------------|----------------|-----------------|---------------|-----------------------------|-------------------|---------------------|---|------------------------|
| | | | R I | C | | | RA | Site Name: Big Eddy Unit 248H | • |
| | | | | | | LU | | Incident Number: NAPP2418043 | 567 |
| | | | | | | | | Job Number: 03C1558453 | |
| | | lithol | OGI | C / SOIL S | SAMPLING | G LOG | | Logged By: JD | Method: Backhoe |
| | nates: 32 | | | | | | | Hole Diameter: 24" | Total Depth: 1' |
| | | | | | | | | PID for chloride and vapor, respection on factor is included. | ctively. Chloride test |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic De | |
| D | 1,609 | 24.8 | Y | SS05 | 0.5 | 0 | CCHE | (0-1') CALICHE, tan, fine gra well sorted, odor | ained, some sand, |
| D | 201.6 | 0.0 | Ν | PH02 | 1 | 1 | | (@1') no odor | |
| | I | | | | - | L Total Dep | oth @ 1- | foot bgs | |
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| | | | | | | | Comple Name: DU02 | Data: 1/21/2025 | | | | |
|--|----------------|----------|------------|-----------------------------|---|--|--|------------------------|--|--|--|--|
| | _ | | | | | | Sample Name: PH03 | Date: 1/31/2025 | | | | |
| | E | N | S | ΟΙ | _ U | | Site Name: Big Eddy Unit 248H & | | | | | |
| | | | | | | | Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071 | | | | | |
| L | ITHOLO | OGIC | C / SOIL S | AMPLING | i log | | Logged By: ER | Method: BackHoe | | | | |
| Coordinates: 32 | | | | | | | Hole Diameter: 3' | Total Depth: 4' | | | | |
| | | - | | | | | PID for chloride and vapor, respendent of the second secon | ctively. Chloride test | | | | |
| Moisture Content Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Lithologic Descriptions | | | | | | | |
| D 4356 | 0.2 | Y | PH03 | 1 1 | (0-4') CALICHE, grey-br grained, non-col | | | | | | | |
| D 1540 | 0.1 | Y | | | 2 | | | | | | | |
| D 1713 | 0.0 | Y | | + + + | 3 | | | | | | | |
| D <162 | 0.5 | Y | PH03 | 4 | 4 | | | | | | | |
| | | | | | | | | | | | | |

| | | | | | | | Sample Name: PH04 | Date: 1/31/2025 | | | |
|--|---|----------|-----------|-----------------------------|-----------|----------------|---|-----------------------------|--|--|--|
| | | | | | | | | | | | |
| | E | N | 5 | ΟΙ | | Μ | Incident Numbers: nADD2 | 2418043567, nAPP2432147637, | | | |
| | | | | | | | nAPP2432531235, & nAPP2502042071 | | | | |
| | | | - | SAMPLING | G LOG | | Logged By: ER | Method: BackHoe | | | |
| Coordinates: 3 | | | | | | | Hole Diameter: 3' | Total Depth: 4' | | | |
| | | | | | | | PID for chloride and vapor, r n factors included. | espectively. Chloride test | | | |
| Moisture Content Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Lithologi | c Descriptions | | | | | |
| | | | | <u> </u> | 0 | | (0-1') Op | en excavation | | | |
| | | | | | | | | | | | |
| D 464 | 0.4 | Y | PH04 | 4 | 4 | CCHE | (@4') CALICHE, tan-grey, fine to medium grained, w/ silt, non-cohesive | | | | |
| | | | | | Total De | oth @ 4 | | | | | |
| | (@4 ⁻) CALICHE, tan-grey, fine to medium grained, | | | | | | | | | | |

| | | | | | | | | Sample Name: PH05 | Date: 1/31/2025 | |
|---------------------|-------------------|----------------|----------|------------|-----------------------------|-------------------------|-------------------|---|---|--|
| | | | | C | | | | | | |
| Ľ | | | N | 3 | | | | | 418043567, nAPP2432147637, 5, & nAPP2502042071 | |
| | | LITHOL | OGI | C / SOIL S | SAMPLING | G LOG | | Logged By: ER | Method: BackHoe | |
| Coordin | nates: 32 | 2.620811 | , -103 | 8.831131 | | | Hole Diameter: 3' | Total Depth:8' | | |
| | | | - | | | | | PID for chloride and vapor, re n factors included. | espectively. Chloride test | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Lithologic Descriptions | | | | |
| D | | 554.6 | Y | PH05 | 1 1 | | | y, fine to medium grained, on-cohesive | | |
| D | | 70.2 | Y | PH05 | 2 | - 2 | | | | |
| D | | 32.3 | Y | PH05 | 3 | 3 | | | | |
| D | | 35.9 | Y | PH05 | 4 | 4 | | | | |
| D | | 27.7 | Y | PH05 | 5 | 5 | | | | |
| D | <162 | 5.8 | Y | PH05 | 6 | 6 | | | | |
| D | | 10.7 | Y | PH05 | 7 | 7 | | | | |
| D | <162 | 4.6 | Y | PH05 | 8 | 8 | | | | |
| | | | | | | Total Dep | oth @ 8 | feet bgs | | |



APPENDIX B

Photographic Log

| E N S O L U M | Photographic Log XTO Energy, Inc Big Eddy Unit 248H and 249H nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071 |
|--|--|
| 11/20/24 13.09 32.62084N 103.83121W 337" NW | NW N NE 300 - - 0 - 30 - |
| Photograph: 1 Date: 11/20/2024 Description: Soil staining - nAPP2432147637, nAPP2432531235 View: North | Photograph: 2 Date: 1/17/2025 Description: Soil staining - nAPP2502042071 View: North |
| ССС 1/31/25 15 36 32 62077N 103 83101W 271 W | Visite 25 15 10 20 |
| Photograph: 3 Date: 1/31/2025 Description: Delineation activities View: West | Photograph: 4 Date: 1/31/2025 Description: Delineation activities View: Northwest |



APPENDIX C *Remediation Work Plan;* dated September 20, 2024

E N S O L U M

September 19, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Work Plan Big Eddy Unit 248H Incident Number NAPP2418043567 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* (*Work Plan*) to document the site assessment activities completed to date and propose a plan to address impacted soil identified at the Big Eddy Unit 248H (Site). The purpose of the site assessment activities was to assess the lateral and vertical extent of impacted soil resulting from a release of produced water and crude oil at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The release was initially reported at the incorrect location but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located on the Big Eddy Unit 248H well pad. The majority of the release is located in Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). However, a portion of the release occurred on State Land managed by New Mexico State Land Office (SLO) in Unit D, Section 36, Township 19 South, and Range 31 East.

On June 21, 2024, the packing on the stuffing box of the well failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture due the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number NAPP2418043567.

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 below. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to

groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-641, located approximately 0.4 miles southeast of the Site. The depth to groundwater in the well, 130 feet bgs, was most recently measured on February 23, 1982. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a lakebed approximately 12,400 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the nearest groundwater data exceeding 25 years in age, and no other data available within 0.5 miles as preferred by the NMOCD, the following 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): 100 mg/kg
- Chloride: 600 mg/kg

CULTURAL PROPERTIES

Since the release remained on pad in the area governed by SLO, the Site is exempt from the Cultural Properties Protection (CPP) Rule. As such no additional cultural resource surveys were completed in connection with this release.

SITE ASSESSMENT ACTIVITIES

On July 29, 2024, Ensolum personnel conducted a Site assessment to evaluate the release based on information provided on the C-141 and visual observations. Ensolum personnel identified the release extent, approximately 10,700 square feet, based on visual observations of stained soil. Ensolum personnel also identified an approximately 88,300 square-foot area in the northwest corner of the pad and pasture where high winds had carried a *de minimus* volume of fluid spray from the release. This area is considered an area of investigation. Ensolum personnel collected thirteen delineation soil samples (SS01 through SS13) within and around the release extent and area of investigation. The delineation soil samples were collected at a depth of 0.5 feet bgs to determine the presence or absence of impacted soil. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The release extent, area of investigation, and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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 consituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500. Based on field screenings and laboratory analytical results, additional delineation of the release extent and further assessment of the area of investigation in the northwest corner of the pad and pasture was warranted.



DELINEATION SOIL SAMPLING ACTIVITIES

On September 9, 2024, Ensolum returned to the Site to remove gross impacts and conduct additional delineation. Saturated soil was removed around the wellhead, but field screening results for VOCs and chloride in excavation soil samples indicated additional excavation was warranted. As such, two potholes (PH01 and PH02) were advanced within the release extent via a backhoe. Pothole PH01 was advanced within the excavation area near SS08 to a depth of 8 feet bgs. Pothole PH02 was advanced to 1-foot bgs and was located in the vicinity of SS05. Discrete delineation soil samples were collected from PH01 at 6 feet and 8 feet bgs and from PH02 at 1-foot bgs. Soil from the potholes was field screened, handled, and analyzed for the same COCs as described above. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. Both delineation pothole locations are depicted on Figure 2. Photographic documentation was completed during all Site visits and is presented on a Photographic Log included in Appendix C.

On September 17, 2024, in order to further assess the area of investigation, Ensolum personnel collected ten additional delineation soil samples (SS14 through SS23) at a depth of 0.5 feet bgs within and around the area of investigation. The delineation soil samples were handled and analyzed following the same procedures described above.

Laboratory analytical results for delineation soil samples collected at 0.5 feet bgs within the release extent indicated TPH and chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for the terminal depths of PH01 and PH02 indicated that all COCs were compliant with Closure Criteria and successfully defined the vertical extent of impacted soil. Laboratory analytical results for delineation soil samples collected at 0.5 feet bgs within and around the area of investigation in the northwest corner of the pad and surrounding pasture indicated all COCs were compliant with the Closure Criteria and confirmed the absence of impacted soil in that area. All laboratory analytical results are summarized on Table 1 and laboratory analytical reports are included in Appendix D.

VEGETATION SURVEY ACTIVITIES

On September 13, 2024, Ensolum personnel conducted a vegetation survey utilizing the linepoint intercept (LPI) method to assess for the presence or absence of any biological indications of stress to the vegetation in the area of investigation. A staff biologist completed 1 LPI transect within the area of investigation and 1 LPI transect to the north in an undisturbed area. Each transect was 100 feet in length and mapped utilizing a handheld GPS unit as depicted on Figure 3. The staff biologist noted each time vegetation intersected the transect and recorded the length of the vegetation along the transect. The transects were completed along the same slope and direction. The staff biologist also recorded the observed health of the plant. Some stressed vegetation, that was indicative of heat stress and natural conditions, was noted throughout the area of investigation and surrounding pasture area. No indications of stress from the potential overspray were observed.

The LPI transect completed in an undisturbed area to the north, LPI-1, indicated a vegetation coverage of 27 percent (%). The LPI transect LPI-2 was completed in the area of investigation and indicated vegetation coverage of 26%. These observations suggest there have been no significant impacts to the vegetation in the area of investigation. The vegetation survey was conducted over 2 months after the release date, during which time any impacts would have become clearly visible. In addition, all laboratory analytical results for delineation soil samples collected in the area of investigation confirmed the absence of impacted soil in the area. Photographic documentation of the vegetation survey is presented in a Photographic Log provided in Appendix C.



PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated TPH and chloride concentrations exists across an approximate 10,700 square foot area in the release extent on pad and extends to depths ranging from 0.5 feet to 8 feet bgs. As such, XTO proposes to complete the following remediation activities:

- Excavation of TPH and chloride impacted soil has begun and will proceed vertically and laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria. The proposed excavation extent is depicted in Figure 4.
- An estimated 1,500 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment.
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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

Sincerely, Ensolum, LLC

nouissey

Tacoma Morrissey, MS Associate Principal

cc: Colton Brown, XTO Kaylan Dirkx, XTO New Mexico State Land Office Bureau of Land Management

Appendices:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Vegetation Survey Transects
- Figure 4 Proposed Excavation Extent
- Table 1
 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Lithologic / Soil Sampling Logs
- Appendix C Photographic Log

Ashley L. ager

Ashley Ager, PG, MS Principal



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

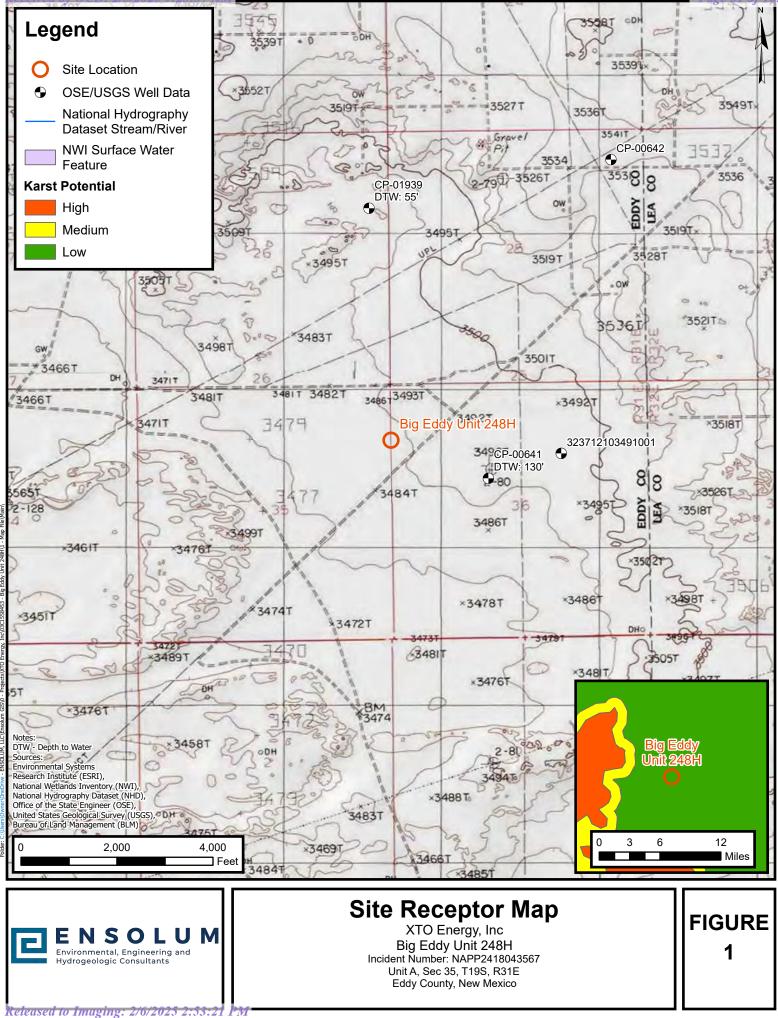


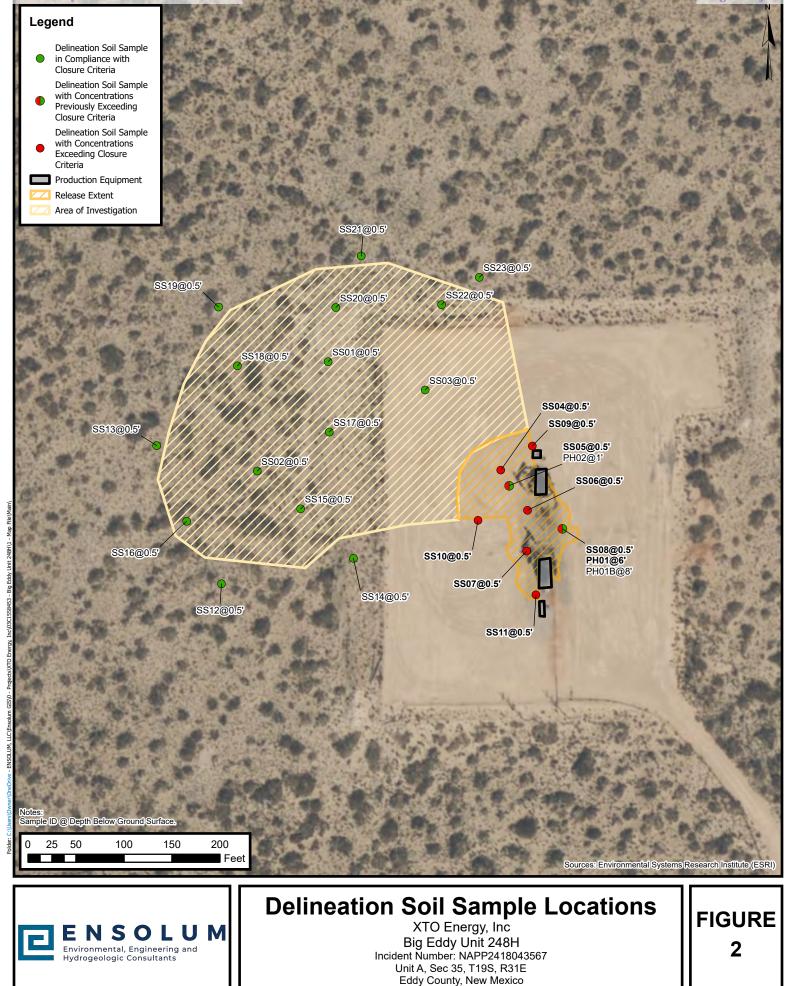


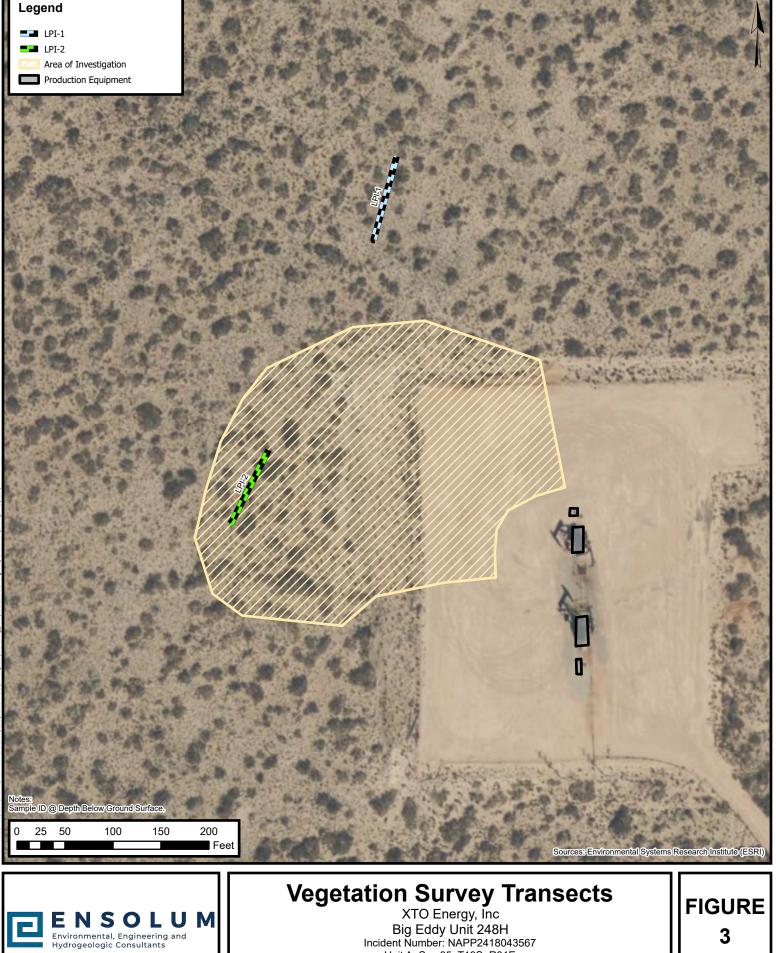
FIGURES













Released to Imaging: 2/6/2025 2:53:21 PM

Unit A, Sec 35, T19S, R31E Eddy County, New Mexico

FIGURE 3





XTO Energy, Inc Big Eddy Unit 248H Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico FIGURE 4



TABLES

E N S O L U M

| | TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 248H XTO Energy, Inc Eddy 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 C | losure Criteria (| NMAC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 | | | |
| | | | | Deli | neation Soil Sa | mples | | | | | | | |
| SS01 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | | |
| SS02 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | | |
| SS03 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 240 | | | |
| SS04 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 182 | 55.3 | 182 | 237 | 560 | | | |
| SS05 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 1,870 | 465 | 1,870 | 2,335 | 1,650 | | | |
| PH02 | 09/09/2024 | 1 | <0.050 | <0.300 | <10.0 | 87.4 | 13.3 | 87.4 | 101 | 192 | | | |
| SS06 | 07/29/2024 | 0.5 | <0.050 | 5.16 | 75.7 | 2,710 | 613 | 2,786 | 3,399 | 1,250 | | | |
| SS07 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 640 | | | |
| SS08 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 13,600 | | | |
| PH01 | 09/09/2024 | 6 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 752 | | | |
| PH01B | 09/09/2024 | 8 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 | | | |
| SS09 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,060 | | | |
| SS10 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,570 | | | |
| SS11 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,060 | | | |
| SS12 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | | |
| SS13 | 07/29/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | | |
| SS14 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | | |
| SS15 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS16 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS17 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS18 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |
| SS19 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | | |

Ensolum

E N S O L U M

| | | | | Bi | TABLE 1 LE ANALYTIC g Eddy Unit 2 XTO Energy, Iu County, New | nc | | | | |
|-----------------|--------------------|----------------------------|--------------------|-----------------------|--|--------------------|--------------------|--------------------|----------------------|---------------------|
| 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 C | losure Criteria (I | NMAC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| SS20 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| SS21 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| SS22 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| SS23 | 09/17/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |

Notes:

bgs: below ground surface GRO: Gasoline Range Organics mg/kg: milligrams per kilogram DRO: Diesel Range Organics NMOCD: New Mexico Oil Conservation Division ORO: Oil Range Organics BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes TPH: Total Petroleum Hydrocarbon Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation NMAC: New Mexico Administrative Code requirement where applicable.

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

Page 39 of 165

SANTA EE

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

|) Owner | of wellP | hillips Pe | troleum | | | Owne | er's Well No | | 41-Exp. |
|--|--|--|--|---|------------------|----------------------------|-----------------|-----------------|------------------|
| Street | or Post Office Ad | dress | P.O.Box | 2130 | | | | | |
| City ar | id State | | 10000, N | 14 30L 4V | | HH. | | | |
| ll was dril | led under Permit | No. TEST | HOLE FOR | EPA | and is located | in the: 1600' | FNL 160 | O'FWL | |
| a | ¼ ¼ | <u>SE</u> <u>14</u> NW | L ¼ of Se | ection _ 56 | _ Township | 195 Ra | nge | | N.M.P. |
| b. Tra | ct No | of Map No. | | of the | | | | | |
| c Lot | No | of Block No | | of the | | | | | |
| Sub | No division, recorded | d in | Ed | dy C | ounty. | | | | |
| | | • | | feet, N.I | M. Coordinate S | System | | | |
| Deillie | Contractor | Larry's | | | | License No | WD 8 8 2 | | |
| | g Contractor | 2601 W. | Bender | Hobbs, | NM 88240 | £.1001130 140 | | | |
| | | | | | | thi-cone | 0-990'- | 7 7/79 | |
| lling Bega | 2-11-81 n | Comp | leted | | Type tools | | 220 Siz30 | | 4 3 / |
| vation of | land surface or _ | | | at well | is | _ ft. Total depth | of well | 300 | t |
| mpleted v | vell is 🗆 sl | hallow 🗌 a | rtesian. 🕇 a 🖌 | t hala 🛛 | Depth to water | upon completion | n of well | 130 | |
| r | | | | | | | | | |
| Dept | h in Feet | Thickness | | CIPAL WATER | · · · · | | Est | imated Y | ield |
| From | То | in Feet | | Description of V | Vater-Bearing F | ormation | (gallo | ns per m | inute) |
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| | | <u>]</u> | Sectio | on 3. RECORD (| OF CASING | | | | |
| Diameter (inches) | | Threads | Depth | in Feet | Length | Type of Sh | De T | Perfor | |
| Diameter (inches) | Pounds per foot | Threads | | | | Type of She | oe I | Perfor: From | ations To |
| | | | Depth | in Feet | Length | Type of Sh | oe 1 | | |
| (inches) | per foot | | Depth Top | in Feet Bottom | Length | Type of She | | From | |
| (inches) | per foot | | Depth Top | in Feet Bottom | Length | Type of Sh | De 1 | From | |
| (inches) | per foot | per in. | Depth Top 0 | in Feet Bottom 220 | Length (feet) | | | From | |
| (inches) | per foot 160PVC | per in. | Depth Top 0 on 4. RECO Sac | in Feet Bottom 220 RD OF MUDDI ks Cu | Length (feet) | ENTING | | From | |
| (inches) | per foot | per in. | Depth Top 0 | in Feet Bottom 220 RD OF MUDDI ks Cu | Length (feet) | ENTING | | From | |
| (inches) | per foot 160PVC | per in. | Depth Top 0 on 4. RECO Sac | in Feet Bottom 220 RD OF MUDDI ks Cu | Length (feet) | ENTING | | From | |
| (inches) | per foot 160PVC | per in. | Depth Top 0 on 4. RECO Sac | in Feet Bottom 220 RD OF MUDDI ks Cu | Length (feet) | ENTING | | From | |
| (inches) | per foot 160PVC | per in. | Depth Top 0 on 4. RECO Sac | in Feet Bottom 220 RD OF MUDDI ks Cu | Length (feet) | ENTING | | From | |
| (inches) | per foot 160PVC | per in. Section Hole Diameter | Depth Top 0 | in Feet Bottom 220 RD OF MUDDI ks Cu fud of | Length (feet) | ENTING | | From | |
| (inches) 5% Dep From | per foot 160PVC th in Feet To | per in. Section Hole Diameter | Depth Top 0 | in Feet Bottom 220 RD OF MUDDI ks Cu | Length (feet) | ENTING | | From | |
| (inches) | per foot 160PVC th in Feet To | per in. Section Hole Diameter | Depth Top 0 | in Feet Bottom 220 RD OF MUDDI ks Cu fud of | Length (feet) | ENTING | od of Place | From | |
| (inches) 5% Dep From gging Cor dress gging Met | per foot IGOPUC IGOPUC Intractor Intractor IGOPUC IGOPUC IGOPUC IGOPUC IGOPUC IGOPUC IGOPUC IGOPUC IGO | per in. Section Hole Diameter | Depth Top 0 | in Feet Bottom 220 RD OF MUDDI ks Cu fud of | Length (feet) | ENTING Meth | od of Place | From | |
| (inches) | per foot IGOPUC IGOPUC It in Feet To Itractor thod Igged | per in. Section Hole Diameter | Depth Top 0 | in Feet Bottom 220 RD OF MUDDI ks Cu fud of | Length (feet) | ENTING Meth Depth in | od of Place | From | |
| (inches) | per foot IGOPUC IGOPUC It in Feet To Itractor thod Igged | per in. | Depth Top 0 | in Feet Bottom 220 RD OF MUDDI ks Cu fud of on 5. PLUGGIN | Length (feet) | ENTING Meth Depth in | od of Place | From | |

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| Released to | | | PM |

_____ Use ____ EXP.

| Depth in Feet Thickness | | | Color and Type of Material Encountered | |
|-------------------------|--|-------------------|--|---------------------------------------|
| From | То | in Feet | | |
| 0 | F elin and | The second second | topsoil | |
| 1 | 2 | | callche | |
| 2 | 18 | 16 | white sand | |
| 18 | 40 | 22 | brown sand | |
| 40 | 100 | 60 | brown sand 8 gravel | |
| 100 | 182 | 82 | brown sand gravel | |
| 182 | 200 | 18 | brown clay gravel | |
| 200 | 292 | 92 | brown clay | |
| 292 | 300 | 8 | ned bed | |
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Section 7. REMARKS AND ADDITIONAL INFORMATION

6 STATE т~^ Сх.2 C. 25 ~

<u>Ukin</u> Driller

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole. Jarry te

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except action 5, shall be answered as completely and scurately as possible when any well is drilled, repaired or deepened. When this are used as a plugging record, only Section 1(are becompleted.



APPENDIX B

Lithologic Soil Sampling Logs

| | | | | | | | | Sample Name: PH01 | Date: 9/9/2024 | | |
|--|-------------------|----------------|----------|------------|-----------------------------|-------------------|--------------------------|--|-----------------|--|--|
| | - | | N | | | LU | RЛ | Site Name: Big Eddy Unit 248H | | | |
| | | | | | | | | Incident Number: NAPP241804 | 43567 | | |
| | | | | | | | | Job Number: 03C1558453 | | | |
| | | LITHOL | OGI | c / soil s | SAMPLING | G LOG | | Logged By: JD | Method: Backhoe | | |
| | inates: 32 | | | | | | | Hole Diameter: 24" | Total Depth: 8' | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for or performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor | | | | | | | pectively. Chloride test | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic | Descriptions | | |
| D | 12,611 | 0.0 | N | SS08 | 0.5 | | CCHE | (0-8') CALICHE, tan, fine well sorted, no odor Soil excavated to 4' bgs 9/9/2024 | | | |
| D | 929.6 1,495 | 0.0 0.0 | | PH01 | 6 | | | | | | |
| D | <162 | 0.0 | | PH01A | 8 | 8 Total Dep | 1th @ 8 | feet has | | | |
| \vdash | | | | | | | າເມ ພ ຊ | ICCI NES | | | |
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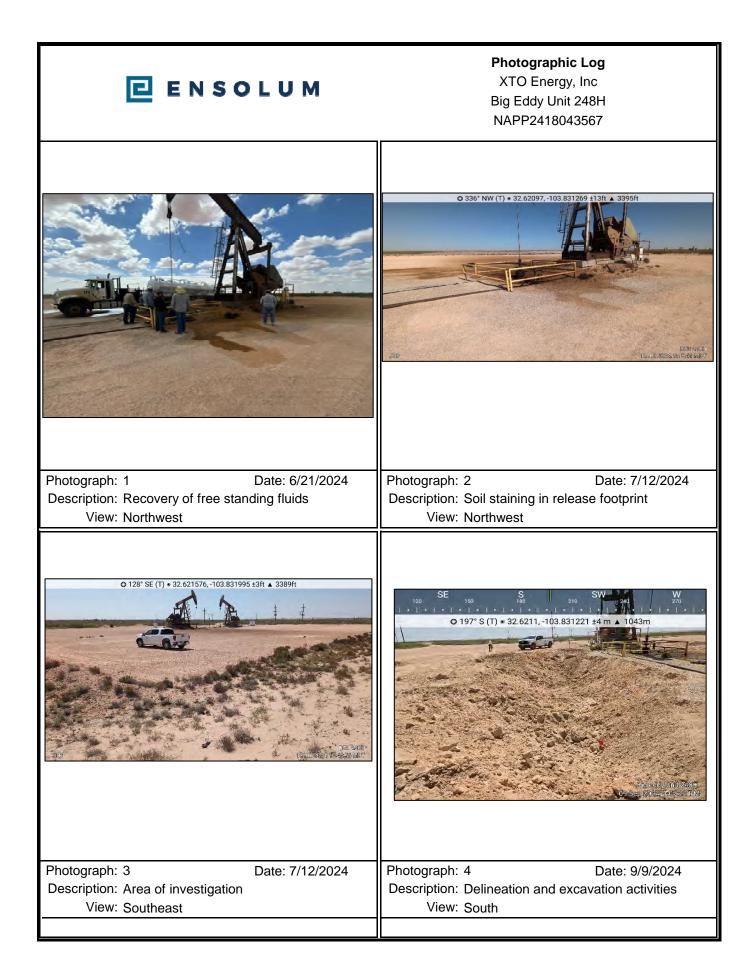
| | | | | | | | | Sample Name: PH02 | Date: 9/9/2024 |
|----------|------------------------------|----------------|----------|------------|-----------------------------|-------------------|---------------------|---|----------------------------|
| | | | N | C | | LU | R/ | Site Name: Big Eddy Unit 24 | 8H |
| | | | | | | | | Incident Number: NAPP2418 | 8043567 |
| | | | | | | | | Job Number: 03C1558453 | |
| | | LITHOL | OGI | C / SOIL S | SAMPLING | 6 LOG | | Logged By: JD | Method: Backhoe |
| Соо | ordinates: 32 | 2.621056 | , -103 | .831474 | | | | Hole Diameter: 24" | Total Depth: 1' |
| | | | | | | | | PID for chloride and vapor, non factor is included. | espectively. Chloride test |
| Moisture | Content Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologi | ic Descriptions |
| D | 1,609 | 24.8 | Y | SS05 | 0.5 | 0 | CCHE | (0-1') CALICHE, tan, fin well sorted, odor | e grained, some sand, |
| D | 201.6 | 0.0 | Ν | PH02 | 1 | _ 1 | | (@1') no odor | |
| | I | | | | - | _ Total Dep | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

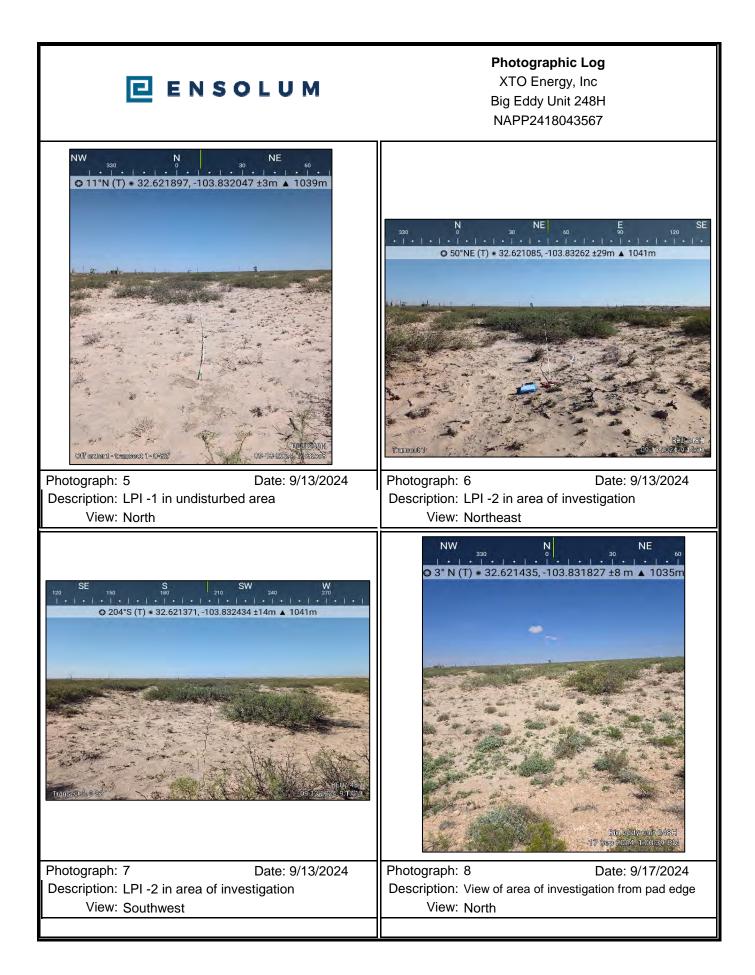


APPENDIX C

Photographic Log

Released to Imaging: 2/6/2025 2:53:21 PM







APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 02, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 01 .5' (H244536-01)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/01/2024 | ND | 209 | 104 | 200 | 2.32 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/01/2024 | ND | 179 | 89.4 | 200 | 0.570 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/01/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 02 .5' (H244536-02)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 123 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 126 9 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM |
|-------------------------|
| DAVID MCINNIS |
| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 03 .5' (H244536-03)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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|-------------------------|
| DAVID MCINNIS |
| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 04 .5' (H244536-04)

| BTEX 8021B | mg/ | 'kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 560 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | 182 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | 55.3 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 114 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 129 9 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM |
|-------------------------|
| DAVID MCINNIS |
| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 05 .5' (H244536-05)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/01/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 08/01/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 08/01/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1650 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | 1870 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | 465 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 127 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 147 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



03C1558453

XTO 32.62087 -103.83145

Alyssa Parras

Sample Received By:

Analytical Results For:

| | ENSOLU | M | |
|---------------|--------------------|---------------------|---------------|
| | DAVID | ICINNIS | |
| | 3122 NA | TIONAL PARKS HWY | |
| | CARLSB | AD NM, 88220 | |
| | Fax To: | | |
| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| | | | |

Sample ID: SS 06 .5' (H244536-06)

Project Number:

Project Location:

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | S-04 |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/01/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | 0.384 | 0.050 | 08/01/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | 1.52 | 0.050 | 08/01/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | 3.26 | 0.150 | 08/01/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | 5.16 | 0.300 | 08/01/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 153 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1250 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | S-04 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 75.7 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | 2710 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | 613 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 131 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 153 | % 49.1-14 | 8 | | | | | | |

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| ENSOLUM |
|-------------------------|
| DAVID MCINNIS |
| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 07 .5' (H244536-07)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg, | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 100 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 109 | % 49.1-14 | 8 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 08 .5' (H244536-08)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.2 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 13600 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 93.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.4 | % 49.1-14 | 8 | | | | | | |

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| DAVID MCINNIS |
| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 09 .5' (H244536-09)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.0 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1060 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.7 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 78.2 | % 49.1-14 | 8 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 10 .5' (H244536-10)

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.0 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1570 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.4 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.8 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM |
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| DAVID MCINNIS |
| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 11 .5' (H244536-11)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.3 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1060 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 86.9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 89.6 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 12 .5' (H244536-12)

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|------------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.4 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 16.0 | | 08/01/2024 ND | | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 120 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 126 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 13 .5' (H244536-13)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|------------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.4 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 16.0 | | 08/01/2024 ND | | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 114 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 122 | % 49.1-14 | 8 | | | | | | |

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PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 whatscever 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 whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

| 2 | Out Dan | Address: 3122 National Parks Hwy City: Carlsbad Phone #: 409-454-3009 Project Name: Big Eddy Unit 248 Project Location: 3 1 6 2087 Sampler Name: Jesse Dorman FOR LAB I.D. Sample I.D. HAUL6 34 502 3 502 | 101 East Maria (575) 393-233 Company Name: Ensolum, LL Project Manager: David Mcinnis |
|--|--|--|--|
| Date: Time: Date: Date: Corrector Temp. *C | billy and client's enclusive remedy for any of d any office cluese whatlower that the does afformation of sectors have to cluding with performance of sectors have to cluding with | ks Hwy State: NM Fax #: Project Owner: Jnit 248H 087 ~1.23, g 087 ~1.23, g 087 ~1.23, g 087 ~1.23, g 087 ~1.23, g (feet) | 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC "David Mcinnis |
| Received By: Received By: Received By: Received By: Sample Condition Cool Intact | an arising thefer based in contract or loss of use, or loss of the contract or loss of use, or | GROUNDWATER WASTEWATER SOIL OIL SLUDGE | |
| Upon any of the above stated reasons or of Verb All Re bbe CHECKED BY: (Initials) Thermo | to the amount paid by within 30 days after co | P.O. #: Company: XTO Energy Inc. Address: 3104 E. Greene St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #: Fax #: Fax #: PRESERV ACID/BASE: DATE TIME 09: 15 07: 16 07: 17 07: 17 | BILL TO |
| vit: Ve are emailed isolum.com, isolum.com | | TIME BTEX CHLORIDE | |
| Image: Standard Moduli Phone #; Please provide Email address: TMorrissey@ensolum.com, dmcInnis@ensolum.com 01001 Incident ID: nAPP2418043567 Standard Mathematical Cool Infact Rush Cool Infact Observed Temp. °C | | | ANALYSIS REQUEST |

Received by OCD: 2/5/2025 9:23:37 AM

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| Delivered By: (Circle One) Observed Temp *C Sample Condition CHECKED BY: Turnaround Time: Standard M Sampler - UPS - Bus - Other: Corrected Temp *C Cool Intact (Initials) Turnaround Time: Standard M Bacteria (FORM-000 R 3.2 10/07/21 Corrected Temp *C Cool Intact (Initials) Thermometer ID #119 # (Initials) FORM-000 R 3.2 10/07/21 t Cardinal cannot accent work of the context of the | Time: REMARKS: Cost Center: 11402 | Time: 25 000000 bbeili@ensolum.com, bbeili@ensolum.com, | deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicab writions if matation; business interruptions, loss of use, or loss of profits incurred by client, its subplataries, archinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. | shall be limited to the am | | 12 55 13 V V V V V V 12 51 55 El | # CON GROU WAST SOIL OIL SLUDO OTHER ACID/E OTHER THE BTE TPH | R: MASE: OOL R: | MATRIX | a: Jesse Dorman | n: | ame: Big Eddy Unit 248H | Fax #: | 409-454-3000 | Corlehod | P.O. #: | c BILL TO | 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 | |
|---|-----------------------------------|---|--|----------------------------|--|----------------------------------|--|--------------------------|--------|-----------------|----|-------------------------|--------|--------------|----------|---------|------------------|--|--|
| dard P Bacteria (only) Sample Condition Cool Intact Observed Temp. °C | Incident ID: nAPP2418043567 | s <u>U No</u> Add'I Phone #: Please provide Email address: TMorrissey@ensolum.com, dmcInnis@ensolum.com | | | | | | | | | | | | | | | ANALYSIS REQUEST | | |

Received by OCD: 2/5/2025 9:23:37 AM

Page 17 of 17

Page 64 of 165



September 17, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: Project Number: Project Manager: Fax To: | | Reported: 17-Sep-24 15:23 |
|--|--|--|------------------------------|
|--|--|--|------------------------------|

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | |
|-----------|---------------|--------|-----------------|-----------------|--|
| PH 01 6' | H245458-01 | Soil | 09-Sep-24 11:30 | 10-Sep-24 13:00 | |
| PH 01A 8' | H245458-02 | Soil | 09-Sep-24 12:05 | 10-Sep-24 13:00 | |
| FS 10 2' | H245458-03 | Soil | 09-Sep-24 13:50 | 10-Sep-24 13:00 | |
| FS 11 2' | H245458-04 | Soil | 09-Sep-24 13:55 | 10-Sep-24 13:00 | |
| FS 15 2' | H245458-05 | Soil | 09-Sep-24 14:10 | 10-Sep-24 13:00 | |
| PH 02 1' | H245458-06 | Soil | 09-Sep-24 15:10 | 10-Sep-24 13:00 | |

09/17/24 - Client changed the sample IDs for -01, -02 and -06 (see COC). This is the revised report and will replace the one sent on 09/11/24.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 248H NY Project Number: 03C1558453 Project Manager: DAVID MCINNIS Fax To: | | | | | | | | Reported: 17-Sep-24 15:23 | | |
|---|---|-----|--------------------|-----------------------|----------|---------|---------|-----------|------------------------------|-------|--|
| | | | | H 01 6' 458-01 (Se | oil) | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes | |
| | | | Cardina | l Laborat | tories | | | | | | |
| Inorganic Compounds Chloride | 752 | | 16.0 | mg/kg | 4 | 4091126 | СТ | 11-Sep-24 | 4500-Cl-B | | |
| Volatile Organic Compounds I | oy EPA Method 8 | 021 | | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 1 | | 105 % | 71.5 | -134 | 4091019 | ЛН | 10-Sep-24 | 8021B | | |
| Petroleum Hydrocarbons by G | FID | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctane | | | 97.1 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctadecane | | | 115 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | | |

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Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project:BIG EDDY UNIT 248HReported:Project Number:03C155845317-Sep-24 15:23Project Manager:DAVID MCINNISFax To:Fax To: | | | | | | | | | 23 |
|--|--|------|--------------------|------------------------|----------|---------|---------|-----------|-----------|-------|
| | | | | [01A 8' 458-02 (Se | oil) | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | l Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 4091126 | CT | 11-Sep-24 | 4500-Cl-B | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 106 % | 71.5 | -134 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Petroleum Hydrocarbons by GC | C FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 97.7 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 115 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | | Project:BIG EDDY UNIT 248HReportedProject Number:03C155845317-Sep-24Project Manager:DAVID MCINNISFax To:Fax To: | | | | | | | | |
|--|------------|---|--------------------|-----------------------|----------|---------|---------|-----------|-----------|-------|
| | | | | S 10 2' 458-03 (So | sil) | | | | | |
| | | | 112-13- | 150 05 (St | ,m) | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | l Laborat | ories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Chloride | 80.0 | | 16.0 | mg/kg | 4 | 4091126 | CT | 11-Sep-24 | 4500-Cl-B | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 103 % | 71.5 | -134 | 4091019 | ЈН | 10-Sep-24 | 8021B | |
| Petroleum Hydrocarbons by GC | C FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 100 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 120 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | |

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Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 248H Reported: Project Number: 03C1558453 17-Sep-24 15:23 Project Manager: DAVID MCINNIS Fax To: | | | | | | | | | |
|--|--|------|--------------------|-----------------------|----------|---------|---------|-----------|-----------|-------|
| | | | | S 11 2' 458-04 (Se | oil) | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | l Labora | tories | | | | | |
| <u>Inorganic Compounds</u> Chloride | 144 | | 16.0 | mg/kg | 4 | 4091126 | СТ | 11-Sep-24 | 4500-Cl-B | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | ЈН | 10-Sep-24 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 105 % | 71.5 | -134 | 4091019 | ЈН | 10-Sep-24 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 96.4 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 111 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | |

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| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project:BIG EDDY UNIT 248HReported:Project Number:03C155845317-Sep-24 15:23Project Manager:DAVID MCINNISFax To:Fax To: | | | | | | | | | 23 |
|--|--|------|--------------------|-----------------------|----------|---------|---------|-----------|-----------|-------|
| | | | | S 15 2' 458-05 (So | oil) | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | l Laborat | ories | | | | | |
| <u>Inorganic Compounds</u> Chloride | 144 | | 16.0 | mg/kg | 4 | 4091126 | СТ | 11-Sep-24 | 4500-Cl-B | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | ЈН | 10-Sep-24 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 107 % | 71.5 | -134 | 4091019 | ЛН | 10-Sep-24 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 97.8 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 113 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 | ſŶ | Project: BIG EDDY UNIT 248H Project Number: 03C1558453 Project Manager: DAVID MCINNIS Fax To: | | | | | | | | Reported: 17-Sep-24 15:23 | | |
|---|------------------|--|--------------------|-----------------------|----------|---------|---------|-----------|-----------|------------------------------|--|--|
| | | | | H 02 1' 458-06 (So | oil) | | | | | | | |
| | | | | |) | | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes | | |
| | | | Cardina | l Laborat | ories | | | | | | | |
| Inorganic Compounds | | | | | | | | | | | | |
| Chloride | 192 | | 16.0 | mg/kg | 4 | 4091126 | CT | 11-Sep-24 | 4500-Cl-B | | | |
| Volatile Organic Compounds | by EPA Method 80 | 21 | | | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | | | |
| Surrogate: 4-Bromofluorobenzene (PID |) | | 107 % | 71.5 | -134 | 4091019 | JH | 10-Sep-24 | 8021B | | | |
| Petroleum Hydrocarbons by (| GC FID | | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | | |
| DRO >C10-C28* | 87.4 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | | |
| EXT DRO >C28-C36 | 13.3 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | | |
| Surrogate: 1-Chlorooctane | | | 94.3 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | | | |
| Surrogate: 1-Chlorooctadecane | | | 111 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | | | |

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Celey D. Keene, Lab Director/Quality Manager



| ENSOLUMProject:BIG EDDY UNIT 248H3122 NATIONAL PARKS HWYProject Number:03C1558453CARLSBAD NM, 88220Project Manager:DAVID MCINNISFax To: | Reported: 17-Sep-24 15:23 |
|---|------------------------------|
|---|------------------------------|

Inorganic Compounds - Quality Control

| Cardinal Laboratories | | | | | | | | | | |
|------------------------------|--------|--------------------|-------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 4091126 - 1:4 DI Water | | | | | | | | | | |
| Blank (4091126-BLK1) | | | | Prepared & | & Analyzed: | 11-Sep-24 | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | | |
| LCS (4091126-BS1) | | | | Prepared & | & Analyzed: | 11-Sep-24 | | | | |
| Chloride | 400 | 16.0 | mg/kg | 400 | | 100 | 80-120 | | | |
| LCS Dup (4091126-BSD1) | | | | Prepared & | & Analyzed: | 11-Sep-24 | | | | |
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | 3.92 | 20 | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: Project Number: Project Manager: Fax To: | | Reported: 17-Sep-24 15:23 |
|--|--|--|------------------------------|
|--|--|--|------------------------------|

Volatile Organic Compounds by EPA Method 8021 - Quality Control

| Cardinal Laboratorie |
|----------------------|
|----------------------|

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------------------------------------|--------|-----------|-------|------------|-----------|-----------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 4091019 - Volatiles | | | | | | | | | | |
| Blank (4091019-BLK1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| 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) | 0.0517 | | mg/kg | 0.0500 | | 103 | 71.5-134 | | | |
| LCS (4091019-BS1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| Benzene | 2.05 | 0.050 | mg/kg | 2.00 | | 102 | 82.8-130 | | | |
| Toluene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 86-128 | | | |
| Ethylbenzene | 2.07 | 0.050 | mg/kg | 2.00 | | 103 | 85.9-128 | | | |
| m,p-Xylene | 4.42 | 0.100 | mg/kg | 4.00 | | 110 | 89-129 | | | |
| o-Xylene | 2.11 | 0.050 | mg/kg | 2.00 | | 105 | 86.1-125 | | | |
| Total Xylenes | 6.52 | 0.150 | mg/kg | 6.00 | | 109 | 88.2-128 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0501 | | mg/kg | 0.0500 | | 100 | 71.5-134 | | | |
| LCS Dup (4091019-BSD1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| Benzene | 1.81 | 0.050 | mg/kg | 2.00 | | 90.3 | 82.8-130 | 12.5 | 15.8 | |
| Toluene | 1.84 | 0.050 | mg/kg | 2.00 | | 92.0 | 86-128 | 12.4 | 15.9 | |
| Ethylbenzene | 1.82 | 0.050 | mg/kg | 2.00 | | 90.9 | 85.9-128 | 12.9 | 16 | |
| m,p-Xylene | 3.91 | 0.100 | mg/kg | 4.00 | | 97.7 | 89-129 | 12.2 | 16.2 | |
| o-Xylene | 1.85 | 0.050 | mg/kg | 2.00 | | 92.5 | 86.1-125 | 12.9 | 16.7 | |
| Total Xylenes | 5.76 | 0.150 | mg/kg | 6.00 | | 96.0 | 88.2-128 | 12.4 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0504 | | mg/kg | 0.0500 | | 101 | 71.5-134 | | | |
| | | | | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UN Project Number: 03C1558453 Project Manager: DAVID MCINI Fax To: | i 17-Sep-24 15:23 |
|--|---|-------------------|
|--|---|-------------------|

Petroleum Hydrocarbons by GC FID - Quality Control

| Cardinal Laboratories |
|------------------------------|
|------------------------------|

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---|--------|-----------|-------|------------|-------------|-----------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 4091016 - General Prep - Organics | | | | | | | | | | |
| Blank (4091016-BLK1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| 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 | 46.2 | | mg/kg | 50.0 | | 92.5 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 53.1 | | mg/kg | 50.0 | | 106 | 49.1-148 | | | |
| LCS (4091016-BS1) | | | | Prepared & | z Analyzed: | 10-Sep-24 | | | | |
| GRO C6-C10 | 204 | 10.0 | mg/kg | 200 | | 102 | 66.4-123 | | | |
| DRO >C10-C28 | 199 | 10.0 | mg/kg | 200 | | 99.4 | 66.5-118 | | | |
| Total TPH C6-C28 | 403 | 10.0 | mg/kg | 400 | | 101 | 77.6-123 | | | |
| Surrogate: 1-Chlorooctane | 51.1 | | mg/kg | 50.0 | | 102 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 55.0 | | mg/kg | 50.0 | | 110 | 49.1-148 | | | |
| LCS Dup (4091016-BSD1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| GRO C6-C10 | 210 | 10.0 | mg/kg | 200 | | 105 | 66.4-123 | 3.00 | 17.7 | |
| DRO >C10-C28 | 209 | 10.0 | mg/kg | 200 | | 104 | 66.5-118 | 4.92 | 21 | |
| Total TPH C6-C28 | 419 | 10.0 | mg/kg | 400 | | 105 | 77.6-123 | 3.95 | 18.5 | |
| Surrogate: 1-Chlorooctane | 54.7 | | mg/kg | 50.0 | | 109 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 58.9 | | mg/kg | 50.0 | | 118 | 49.1-148 | | | |

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

| Fax #: Project Owner: XTO y Unit 248H 31 Anno Marrier XTO y Unit 248H 31 Anno Sample Depth (feet) A A A A A A A A B A B B B B A B </th <th>Address: 3122 National Parks Hwy City: Carlsbad</th> <th>State: NM</th> <th>P.o. #: Company: XTO Energy Inc.</th> <th></th> <th></th> | Address: 3122 National Parks Hwy City: Carlsbad | State: NM | P.o. #: Company: XTO Energy Inc. | | |
|---|--|--|--|-------------|--------------|
| Image: Elig Eddy Units: mare: Big Eddy Unit: Yange: mare: Big Eddy Unit: None: mare: Scoop: -103.83145 Pinone: mare: Scoop: - | Carlsbad #: 409-454-3009 | y State:NM Zip: 88220 | ny: XTO Energy my Ruth | | |
| Image: Big Eddy Unit 246H Frequency: VTO Gay: Catisbad ame: Uses Dorman 32.62087, 103.83145 Frequency: Status: NM Zp: 83220 ame: Uses Dorman Free xet Free xet ame: Uses Dorman< | 409-454-3009 | I VIVI | Prop | | |
| Image: Elig Eldy Unit 248H Surg: Volusional Image: Else Dorman For else Image: Else Dorman Else Dorman Image: Else | 03C1558453 | oject Owner: | L. Oldell | | |
| eardin: 32.62007, -103.83145 Phone #: mare -lesse Dorman Rat #: mare -less Dorman Rat #: mare -les | | | | | |
| Inner-lösse Dorman Filt inner ovr Filt inner <t< td=""><td></td><td>145</td><td>R</td><td></td><td></td></t<> | | 145 | R | | |
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| Sample Lp. Sample Depth (feed) Sample Depth (feed) Sample Depth (feed) Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit <td>FOR LAB USE ONLY</td> <td></td> <td>Fax #:</td> <td></td> <td></td> | FOR LAB USE ONLY | | Fax #: | | |
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| Bits Only Sample Condition CHECKED BY: United Trans. Description Bits< | Hausus * | (G)RAB # CONTA GROUNE WASTEV SOIL OIL | OTHER : ACID/BAS CE / COO DTHER : DATE | ГРН | |
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| arising out of or related to the performance of tenders housines interruption, loss of less, or loss of ordes much output and output | Vice: Labelly and Damages. Cardinal's liability and clients as yses. All claims including those for negligence and any other cause w ice. In no event shall Cardinal be liable for incidential or non-assumed. | sing whether base wed unless made | r fort, shall be limited to the amount paid by the client for the received by Cardinal wakin on a | | |
| By: Time 200 Stock of the sector of the sec | out | hethe | Is of use, or loss of profits incurred by client, its subsidiaries, based upon any of the above stated reasons or otherwise | | |
| By: Date: Received By: Duty: Date: Received By: Duty: DMCInnis@ensolum.com (Circle One) Observed Tamp. Cl 3: Sample Condition CHECKED BY: Turnaround Time: Sandard Incident ID: NAPP2418043567 - Bus - Other: Cool Intact (Initials) Turnaround Time: Sandard Bacteria (only) Sample Condition | | 0.24 | Verbal Result: | 00 | # |
| Circle One) Observed Time: Carcel Ved By: Image: Condition REMARKS: Cost Center: Cost Center: Transport • Bus • Other: Observed Temp: Cost Center: 140201001 August 10: NAPP2418043567 • Bus • Other: Observed Temp: Cool Intact Initials) Turnaround Time: Sandard Bacteria (only) Sample Condition | 2 | 1500 | DMcinnis@enso | <u> </u> | ess: |
| (Circle One) Observed Temp. *CL3 Cool Intact Sample Condition CHECKED BY: Turnaround Time: Sandard Bacteria (only) Sample Condition • Bus • Other: Cool Intact (Initials) Turnaround Time: Sandard Bacteria (only) Sample Condition | | | REMARKS: X | Custone And | water of the |
| - Bus - Other: Continue - Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) Sample Condition | 0 | | | 00102011 | f |
| | Coserv | 1 mp. Cl32 | CHECKED BY: | | |

Received by OCD: 2/5/2025 9:23:37 AM

Page 77 of 165

Laboratories



September 18, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:11.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 14 .5' (H245642-01)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 09/18/2024 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 117 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 126 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 15 .5' (H245642-02)

| BTEX 8021B | mg, | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg, | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 110 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 9 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 16 .5' (H245642-03)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 17 .5' (H245642-04)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 18 .5' (H245642-05)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 108 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 19 .5' (H245642-06)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 105 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 20 .5' (H245642-07)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 21 .5' (H245642-08)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 120 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 22 .5' (H245642-09)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/18/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/18/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/18/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 9 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 23 .5' (H245642-10)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 100 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/18/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/18/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/18/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 116 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 124 9 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240

| Company Name: Ensolum, LLC Project Manager: David Mcinnis | סיס) אשט-באנע דאא (איס) אשט-ביינע Ensolum, LLC David Mcinnis | P.O. # | ANALYSIS REQUEST |
|--|---|--|--|
| Address: 3122 National Parks Hwy | łwy | company: XTO Energy Inc | Inc. |
| city: Carlsbad | State: NM Zip: 88220 | Attn: Amy Ruth | |
| Phone #: 409-454-3009 | Fax #: | Address: 3104 E. Green | in St. |
| Project #: 03C1558453 | Project Owner: XTO | city: Carlsbad | |
| Project Name: Big Eddy Unit 248H | 248H | State: NM Zip: 88220 | |
| Project Location: 32.62087, -103.83145 | 13.83145 | Phone #: | |
| Sampler Name: Jesse Dorman | | Fax #: | |
| FOR LAB USE ONLY | | C PRESERV. SAMPLING | |
| Lab I.D. Sample I.D. | (G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : | BTEX TPH CHLORIDE |
| h155 T | - | 1 42/21/6 | 130 1 1 |
| 3 2515 | | | 136 |
| 2155 h | | | 136 1 1 1 - |
| 2155 S | | | 191 |
| 0755 L | | | 148 1 1 841 |
| 1899 8 | | | ISA IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII |
| 4 459. 6 | | 4 | |
| PLEASE NOTE: Labity and Damages. Cardinal's labitly as analyses. All claims including those for negligence and any service. In no event shall cardinal be liable for incidental or o | PLEASE NOTE: LabBig and Damages. Cardnal's labBity 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 precessed. All claims including those for negligence and any other cause whatevery shall be deemed waived unknew mide in writing and received by Cardinal within 30 days after completion of the applicable service. In one went shall Cardinal be liable for incidental or consequential damages, including without imitation, business interruptions, loss of use, or loss of profits incurned by client, its subsidiaries, service. | ntract or tort, shall be lim ted to the amount paid by ing and received by Cardinal within 30 days after co itons, loss of use, or loss of profits incurred by clien | y the clent for the ompletion of the applicable rt, its subsidiaries, |
| aritiales or successors areing out or or related to the period | Time; UII SOND DI ONI I MA | _ | Verbal Result: Verbal Result: Verbal Results are emailed. Please provide Email address: Dmcinnis@ensolum.com TMorrissey@ensolum.com, kthomason@ensolum.com |
| Relinquished By: | Date: Received By: | Dane L | Incident |
| Delivered By: (Circle One) | SC Sample | ct (Initials) | Rush Cool Int |
| Sampler - UPS - Bus - Other: | Corrected Temp. "CO. QL Host | No XX | Correction Factor |

Received by OCD: 2/5/2025 9:23:37 AM

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 02, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 01 .5' (H244536-01)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 08/01/2024 | ND | 209 | 104 | 200 | 2.32 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/01/2024 | ND | 179 | 89.4 | 200 | 0.570 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/01/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM |
|-------------------------|
| DAVID MCINNIS |
| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 02 .5' (H244536-02)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 123 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 126 9 | % 49.1-14 | 8 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 03 .5' (H244536-03)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 04 .5' (H244536-04)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 560 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | 182 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | 55.3 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 114 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 129 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 05 .5' (H244536-05)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/01/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 08/01/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 08/01/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1650 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | 1870 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | 465 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 127 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 147 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 06 .5' (H244536-06)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | S-04 |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/01/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | 0.384 | 0.050 | 08/01/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | 1.52 | 0.050 | 08/01/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | 3.26 | 0.150 | 08/01/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | 5.16 | 0.300 | 08/01/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 153 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1250 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | S-04 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 75.7 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | 2710 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | 613 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 131 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 153 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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| 3122 NATIONAL PARKS HWY |
| CARLSBAD NM, 88220 |
| Fax To: |
| |

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 07 .5' (H244536-07)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.96 | 98.2 | 2.00 | 5.95 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 5.60 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.15 | 107 | 2.00 | 5.41 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.59 | 110 | 6.00 | 5.45 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg, | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 100 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 109 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 08 .5' (H244536-08)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.2 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 13600 | 16.0 | 07/31/2024 | ND | 464 | 116 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 93.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.4 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 09 .5' (H244536-09)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.0 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1060 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.7 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 78.2 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 10 .5' (H244536-10)

| BTEX 8021B | mg | /kg | Analyze | ed By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.0 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1570 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.4 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.8 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 11 .5' (H244536-11)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.3 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1060 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 86.9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 89.6 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 12 .5' (H244536-12)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.4 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 120 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 126 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 07/30/2024 | Sampling Date: | 07/29/2024 |
|-------------------|-------------------------|---------------------|---------------|
| Reported: | 08/02/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 13 .5' (H244536-13)

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.00 | 100 | 2.00 | 8.77 | |
| Toluene* | <0.050 | 0.050 | 07/31/2024 | ND | 1.97 | 98.4 | 2.00 | 9.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2024 | ND | 2.08 | 104 | 2.00 | 9.88 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2024 | ND | 6.11 | 102 | 6.00 | 9.73 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.4 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 08/01/2024 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/31/2024 | ND | 187 | 93.7 | 200 | 4.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/31/2024 | ND | 184 | 91.9 | 200 | 4.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/31/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 114 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 122 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

| Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other: | 3 3 4 5 5 5 6 5 7 5 8 5 9 <th>Address: 3122 National Parks Hwy City: Carlsbad Phone #: 409-454-3009 Fa Project Name: Big Eddy Unit 248H Project Location: 32.62087 Sampler Name: Jesse Dorman For LAB UNE ONLY Sample I.D. Sample I.D. Sa H2044634 Sample I.D. Sa Sa</th> <th>101 East Marlan (575) 393-2326 Company Name: Ensolum, LLC Project Manager: David Mcinnis</th> | Address: 3122 National Parks Hwy City: Carlsbad Phone #: 409-454-3009 Fa Project Name: Big Eddy Unit 248H Project Location: 32.62087 Sampler Name: Jesse Dorman For LAB UNE ONLY Sample I.D. Sample I.D. Sa H2044634 Sample I.D. Sa Sa | 101 East Marlan (575) 393-2326 Company Name: Ensolum, LLC Project Manager: David Mcinnis |
|--|---|--|---|
| Date: Time: Date: Time: Correcto Temp. *C Correcto Temp. *C Correcto Temp. *C | and clents a sculukie remedy for any cl other clause whatsoever shall be deep consequential damages, including with nance of services herewarder by Cards | I.D. Sample Depth (feet) GROUNDWATER WASTEWATER | 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC |
| By: Verbal Result: Verbal Result: Ye All Results are emailed bbeilil@ensolum.com, bbeilil@ensolum.com, bbeilil@ensolum.com, bbeilil@ensolum.com, com, By: Cost Center: 11402 Sample Condition ChecKED BY: Cost Center: 11402 Cost Center: | an artising whether based in contract or text, shall be initiade to the amount guide by the client to the appoint in writing and memory of the above stande by client, the subsidiaries, as it regardless of whether such claims is based upon any of the above stande by client, the subsidiaries, as it regardless of whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is based upon any of the above stande above or whether such claims is above stande above or whether such claims is above stande above or whether such claims is above the such stande above or whether such claims is above stande above or | SOIL SUUDGE OTHER: ACID/BASE: ICE / COOL SLUDGE OTHER: ACID/BASE: SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL | BILL TO |
| III: Yes Y No Add'I Phone #: irre emailed. Please provide Email address: solum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com inter: 1140201001 Incident ID: nAPP2418043567 Time: Standard Rush Cool D Fush Ves Ves Ves Ves | | | ANALYSIS REQUEST |

Page 16 of 17

| BILL TO ANALYSIS REQUEST P.O. #: Company: XTO Energy Inc. Admess: 3104 E. Greene St. Greene St. Phone #: Fraze: Fax #: Fraze: Proces: Time: To Darte: Time: Proces: Time: |
|---|
|---|

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September 17, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: Project Number: Project Manager: Fax To: | | Reported: 17-Sep-24 15:23 |
|--|--|--|------------------------------|
|--|--|--|------------------------------|

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | |
|-----------|---------------|--------|-----------------|-----------------|--|
| PH 01 6' | H245458-01 | Soil | 09-Sep-24 11:30 | 10-Sep-24 13:00 | |
| PH 01A 8' | H245458-02 | Soil | 09-Sep-24 12:05 | 10-Sep-24 13:00 | |
| FS 10 2' | H245458-03 | Soil | 09-Sep-24 13:50 | 10-Sep-24 13:00 | |
| FS 11 2' | H245458-04 | Soil | 09-Sep-24 13:55 | 10-Sep-24 13:00 | |
| FS 15 2' | H245458-05 | Soil | 09-Sep-24 14:10 | 10-Sep-24 13:00 | |
| PH 02 1' | H245458-06 | Soil | 09-Sep-24 15:10 | 10-Sep-24 13:00 | |

09/17/24 - Client changed the sample IDs for -01, -02 and -06 (see COC). This is the revised report and will replace the one sent on 09/11/24.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 | Y | | Project Num Project Mana | ber: 03C | | | | 1 | Reported: 7-Sep-24 15: | 23 |
|---|-----------------|-----|-----------------------------|-----------------------|----------|---------|---------|-----------|---------------------------|-------|
| | | | | H 01 6' 458-01 (Se | oil) | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | l Laborat | tories | | | | | |
| Inorganic Compounds Chloride | 752 | | 16.0 | mg/kg | 4 | 4091126 | СТ | 11-Sep-24 | 4500-Cl-B | |
| Volatile Organic Compounds I | oy EPA Method 8 | 021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | 1 | | 105 % | 71.5 | -134 | 4091019 | ЛН | 10-Sep-24 | 8021B | |
| Petroleum Hydrocarbons by G | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 97.1 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 115 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | | Project: BIG EDDY UNIT 248H Project Number: 03C1558453 Project Manager: DAVID MCINNIS Fax To: | | | | | | | | |
|--|------------|--|--------------------|------------------------|----------|---------|---------|-----------|-----------|-------|
| | | | | [01A 8' 458-02 (Se | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | ll Laborat | tories | | | | | |
| Inorganic Compounds | | | | | | | | | | |
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 4091126 | CT | 11-Sep-24 | 4500-Cl-B | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 106 % | 71.5 | -134 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 97.7 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 115 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | | | Project Num Project Mana | ber: 03C | | | 1 | Reported: 17-Sep-24 15:23 | | |
|--|------------|------|-----------------------------|-----------------------|----------|---------|---------|------------------------------|-----------|-------|
| | | | | S 10 2' 458-03 (Se | oil) | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | ıl Laborat | tories | | | | | |
| Inorganic Compounds | 00.0 | | 16.0 | mg/kg | 4 | 4091126 | СТ | 11-Sep-24 | 4500-Cl-B | |
| Chloride | 80.0 | | 16.0 | mg/kg | 4 | 4091120 | CI | 11-Sep-24 | 4300-СІ-В | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 103 % | 71.5 | -134 | 4091019 | JH | 10-Sep-24 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 100 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 120 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | | Project:BIG EDDY UNIT 248HReportProject Number:03C155845317-Sep-temperatureProject Manager:DAVID MCINNISFax To: | | | | | | | | | |
|--|------------|---|--------------------|-----------------------|----------|---------|---------|-----------|-----------|-------|--|
| | | | | S 11 2' 458-04 (So | oil) | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes | |
| | | | Cardina | l Laborat | ories | | | | | | |
| Inorganic Compounds | | | | | | | | | | | |
| Chloride | 144 | | 16.0 | mg/kg | 4 | 4091126 | CT | 11-Sep-24 | 4500-Cl-B | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 105 % | 71.5 | -134 | 4091019 | ЈН | 10-Sep-24 | 8021B | | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctane | | | 96.4 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctadecane | | | 111 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | | Project: BIG EDDY UNIT 248H Rep Project Number: 03C1558453 17-Se Project Manager: DAVID MCINNIS Fax To: | | | | | | | | | |
|--|------------|--|--------------------|-----------------------|----------|---------|---------|-----------|-----------|-------|--|
| | | | | S 15 2' 458-05 (Se | oil) | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes | |
| | | | Cardina | l Laborat | ories | | | | | | |
| Inorganic Compounds | | | | | | | | | | | |
| Chloride | 144 | | 16.0 | mg/kg | 4 | 4091126 | СТ | 11-Sep-24 | 4500-Cl-B | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 107 % | 71.5 | -134 | 4091019 | ЈН | 10-Sep-24 | 8021B | | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctane | | | 97.8 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctadecane | | | 113 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 | Y | Project:BIG EDDY UNIT 248HReportProject Number:03C155845317-Sep-2Project Manager:DAVID MCINNISFax To:Fax To: | | | | | | | | | |
|---|----------------|--|--------------------|-----------------------|----------|---------|---------|-----------|-----------|-------|--|
| | | | | H 02 1' 458-06 (So | oil) | | | | | | |
| | | | | | , | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes | |
| | | | Cardina | l Laborat | ories | | | | | | |
| Inorganic Compounds | | | | | | | | | | | |
| Chloride | 192 | | 16.0 | mg/kg | 4 | 4091126 | CT | 11-Sep-24 | 4500-Cl-B | | |
| Volatile Organic Compounds b | y EPA Method 8 | 021 | | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 4091019 | ЛН | 10-Sep-24 | 8021B | | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 107 % | 71.5 | -134 | 4091019 | JH | 10-Sep-24 | 8021B | | |
| Petroleum Hydrocarbons by G | C FID | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| DRO >C10-C28* | 87.4 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| EXT DRO >C28-C36 | 13.3 | | 10.0 | mg/kg | 1 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctane | | | 94.3 % | 48.2 | -134 | 4091016 | MS | 10-Sep-24 | 8015B | | |
| Surrogate: 1-Chlorooctadecane | | | 111 % | 49.1 | -148 | 4091016 | MS | 10-Sep-24 | 8015B | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 248H Project Number: 03C1558453 Project Manager: DAVID MCINNIS Fax To: | Reported: 17-Sep-24 15:23 |
|--|--|------------------------------|
|--|--|------------------------------|

Inorganic Compounds - Quality Control

| | Cardinal Laboratories | | | | | | | | | | | |
|------------------------------|-----------------------|--------------------|-------|----------------|------------------|-----------|----------------|------|--------------|-------|--|--|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | | |
| Batch 4091126 - 1:4 DI Water | | | | | | | | | | | | |
| Blank (4091126-BLK1) | | | | Prepared & | & Analyzed: | 11-Sep-24 | | | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | | | | |
| LCS (4091126-BS1) | | | | Prepared & | & Analyzed: | 11-Sep-24 | | | | | | |
| Chloride | 400 | 16.0 | mg/kg | 400 | | 100 | 80-120 | | | | | |
| LCS Dup (4091126-BSD1) | | | | Prepared & | & Analyzed: | 11-Sep-24 | | | | | | |
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | 3.92 | 20 | | | |

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Celey D. Keene, Lab Director/Quality Manager



| ENSOLUMProject:BIG EDDY UNIT 248HReported:3122 NATIONAL PARKS HWYProject Number:03C155845317-Sep-24 15:23CARLSBAD NM, 88220Project Manager:DAVID MCINNISFax To: |
|---|
|---|

Volatile Organic Compounds by EPA Method 8021 - Quality Control

| Cardinal Laboratories | Cardinal | Labor | ratories |
|------------------------------|----------|-------|----------|
|------------------------------|----------|-------|----------|

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------------------------------------|--------|-----------|-------|------------|-----------|-----------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 4091019 - Volatiles | | | | | | | | | | |
| Blank (4091019-BLK1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| 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) | 0.0517 | | mg/kg | 0.0500 | | 103 | 71.5-134 | | | |
| LCS (4091019-BS1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| Benzene | 2.05 | 0.050 | mg/kg | 2.00 | | 102 | 82.8-130 | | | |
| Toluene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 86-128 | | | |
| Ethylbenzene | 2.07 | 0.050 | mg/kg | 2.00 | | 103 | 85.9-128 | | | |
| m,p-Xylene | 4.42 | 0.100 | mg/kg | 4.00 | | 110 | 89-129 | | | |
| o-Xylene | 2.11 | 0.050 | mg/kg | 2.00 | | 105 | 86.1-125 | | | |
| Total Xylenes | 6.52 | 0.150 | mg/kg | 6.00 | | 109 | 88.2-128 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0501 | | mg/kg | 0.0500 | | 100 | 71.5-134 | | | |
| LCS Dup (4091019-BSD1) | | | | Prepared & | Analyzed: | 10-Sep-24 | | | | |
| Benzene | 1.81 | 0.050 | mg/kg | 2.00 | | 90.3 | 82.8-130 | 12.5 | 15.8 | |
| Toluene | 1.84 | 0.050 | mg/kg | 2.00 | | 92.0 | 86-128 | 12.4 | 15.9 | |
| Ethylbenzene | 1.82 | 0.050 | mg/kg | 2.00 | | 90.9 | 85.9-128 | 12.9 | 16 | |
| m,p-Xylene | 3.91 | 0.100 | mg/kg | 4.00 | | 97.7 | 89-129 | 12.2 | 16.2 | |
| o-Xylene | 1.85 | 0.050 | mg/kg | 2.00 | | 92.5 | 86.1-125 | 12.9 | 16.7 | |
| Total Xylenes | 5.76 | 0.150 | mg/kg | 6.00 | | 96.0 | 88.2-128 | 12.4 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0504 | | mg/kg | 0.0500 | | 101 | 71.5-134 | | | |
| | | | | | | | | | | |

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UN Project Number: 03C1558453 Project Manager: DAVID MCINI Fax To: | i 17-Sep-24 15:23 |
|--|---|-------------------|
|--|---|-------------------|

Petroleum Hydrocarbons by GC FID - Quality Control

| Cardinal Laboratories |
|------------------------------|
|------------------------------|

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Batch 4091016 - General Prep - Organics | | | | | | | | | | |
| Blank (4091016-BLK1) | | | | Prepared & | k Analyzed: | 10-Sep-24 | ŀ | | | |
| 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 | 46.2 | | mg/kg | 50.0 | | 92.5 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 53.1 | | mg/kg | 50.0 | | 106 | 49.1-148 | | | |
| LCS (4091016-BS1) | | | | Prepared & | analyzed: | 10-Sep-24 | Ļ | | | |
| GRO C6-C10 | 204 | 10.0 | mg/kg | 200 | | 102 | 66.4-123 | | | |
| DRO >C10-C28 | 199 | 10.0 | mg/kg | 200 | | 99.4 | 66.5-118 | | | |
| Total TPH C6-C28 | 403 | 10.0 | mg/kg | 400 | | 101 | 77.6-123 | | | |
| Surrogate: 1-Chlorooctane | 51.1 | | mg/kg | 50.0 | | 102 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 55.0 | | mg/kg | 50.0 | | 110 | 49.1-148 | | | |
| LCS Dup (4091016-BSD1) | | | | Prepared & | Analyzed: | 10-Sep-24 | Ļ | | | |
| GRO C6-C10 | 210 | 10.0 | mg/kg | 200 | | 105 | 66.4-123 | 3.00 | 17.7 | |
| DRO >C10-C28 | 209 | 10.0 | mg/kg | 200 | | 104 | 66.5-118 | 4.92 | 21 | |
| Total TPH C6-C28 | 419 | 10.0 | mg/kg | 400 | | 105 | 77.6-123 | 3.95 | 18.5 | |
| Surrogate: 1-Chlorooctane | 54.7 | | mg/kg | 50.0 | | 109 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 58.9 | | mg/kg | 50.0 | | 118 | 49.1-148 | | | |
| | | | | | | | | | | |

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| ND | Analyte NOT DETECTED at or above the reporting limit |
|-----|---|
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |

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

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Celey D. Keene, Lab Director/Quality Manager

| All chims: including and Damages. Cardinal's values and client's exclusive remedy for any client arring whether based in contract or or service. In no event shall Cardinal's enders and any other cause whatsower shall be deemed waked unless made in writing and non antiference of services hereuroper, including whether based in contract or or or one waked and any other cause whatsower shall be deemed waked unless made in writing and non antiference of services hereuroper, including whether based in contract or or or one of any other cause whatsower shall be deemed waked unless made in writing and non antiference of services hereuroper, including whether such claim is based in residued to the performance of services hereuroper, including whether such claim is based in residued to the performance of services hereuroper, including whether such claim is based in residued to the performance of services hereuroper, including whether such claim is based in residued to the performance of services many that is the service of the service | 122 National Parks Hwy Isbad State: NM zip: 88220 409-454-3009 Fax #: o3C1558453 Project Owner: XTO ne: Big Eddy Unit 248H tion: 32.62087, -103.83145 me: Jesse Dorman Sample I.D. Sample I.D. Sample Depth Ph&S A % %< | 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Project Manager: David Mcinnis | Laboratories |
|---|---|--|------------------------------|
| chall be limited to the amount paid by the claimt for the level by Cardinal within 30 days after completion of the applicable use, or loss of profits incurred by 30 days after completion of the applicable dupon any of the above stated freasons or otherwise. Verbal Result: Verbal Result: V | SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE Company: XTO Energy Inc. Address: 3104 E. Green St. City: Carlsbad State: NM Zip: 88220 Phone #: Fax #: Fax #: Fax #: DATE TIME BTEX TPH CHLORIDE | BILL TO | CHAIN-OF-CU |
| String Add Phone #: Please provide Email address: m Morrissey@ensolum.com. 1140201001 Nuguested Incident ID: NAPP2418043567 Maritard Bacteria (only) Sample Condition No No Observed Temp. °C ardinaltabsnm.com | | ANALYSIS REQUEST | CUSTODY AND ANALYSIS REQUEST |

Received by OCD: 2/5/2025 9:23:37 AM

Page 13 of 13

Page 121 of 165



September 18, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:11.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 14 .5' (H245642-01)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 09/18/2024 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 117 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 126 | % 49.1-14 | 8 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 15 .5' (H245642-02)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 110 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 16 .5' (H245642-03)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 17 .5' (H245642-04)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 18 .5' (H245642-05)

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 108 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 9 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 19 .5' (H245642-06)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 105 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 9 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 20 .5' (H245642-07)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 9 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 21 .5' (H245642-08)

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/17/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/17/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/17/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 120 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 22 .5' (H245642-09)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/18/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/18/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/18/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

| Received: | 09/17/2024 | Sampling Date: | 09/17/2024 |
|-------------------|-------------------------|---------------------|------------------|
| Reported: | 09/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 248H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558453 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62087 -103.83145 | | |

Sample ID: SS 23 .5' (H245642-10)

| BTEX 8021B | mg | /kg | Analyze | ed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.11 | 105 | 2.00 | 6.21 | |
| Toluene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.13 | 107 | 2.00 | 6.10 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/17/2024 | ND | 2.12 | 106 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 09/17/2024 | ND | 6.53 | 109 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 09/17/2024 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 100 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/18/2024 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/18/2024 | ND | 201 | 101 | 200 | 2.40 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/18/2024 | ND | 203 | 102 | 200 | 1.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/18/2024 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 116 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 124 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 2/5/2025 9:23:37 AM

Project Manager: David Mcinnis City: Company Name: Address: 3122 National Parks Hwy Project Name: Phone #: Project Location: Relinquished By **Relinquished By** ervice. In no event shall Cardinal be liable for incidental or nalyses. All claims including those for negligence and any other cause whatsoever shall be dee Haysury ampler Name: Jesse Dorman roject #: Sampler - UPS - Bus - Other: FOR LAB USE ONLY Delivered By: (Circle One) EASE NOTE: Lab I.D. Carlsbad C 6 S 409-454-3009 03C1558453 101 East Marland, Hobbs, NM 88240 Big Eddy Unit 248H (575) 393-2326 FAX (575) 393-2476 Sample I.D. 32.62087, -103.83145 33 C liability and client's exclusive remedy for any Observed Temp Fax #: Sample Depth Time: State: NM Date: Date Time: + Project Owner: Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com (feet) Tal 00. ĉ Zip: 88220 G)RAB OR (C)OMP Sč .Qi Received By Received By: # CONTAINERS XTO 1 GROUNDWATER 0 Cool Intact WASTEWATER Sample Condition made in writing and rec MATRIX SOIL OIL SLUDGE P.O. #: loss of use, or loss of profits State: NM Zip: 88220 city: Carlsbad Fax #: Attn: Amy Ruth Company: XTO Energy Inc OTHER Phone #: Address: 3104 E. Green St ACID/BASE PRESERV ICE / COOL CHECKED BY (Initians) BILL TO OTHER DATE SAMPLING 2 by client, its subsidiaries after ind by the client ion Verbal Result: Ves All Results are emailed. HUO-0.0 REMARKS: TIME Dmcinnis@ensolum.com TMorrissey@ensolum.com, 5 30 1 5 tion of the ap U ter ID #113 Cost Center: 1140201001 BTEX licable TPH Please provide Email address: CHLORIDE Rush tandard No No ANALYSIS REQUEST Add'l Phone #: Jent ID: NAPP2418043567 Cool Intact Bacteria (only) Sample Condition Cool Intact Observed Temp. kthomason@ensolum.com Corrected Temp. °C ő

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 134 of 165

CARDINAL Laboratories



February 03, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BEU 2481249H

Enclosed are the results of analyses for samples received by the laboratory on 01/31/25 17:00.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



| ENSOLUM, LLC |
|-------------------|
| TRACY HILLARD |
| 705 W WADLEY AVE. |
| MIDLAND TX, 79705 |
| Fax To: |
| |

| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
|-------------------|--------------------------|---------------------|---------------|
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 03 1 (H250597-01)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 01/31/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 121 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | Analyzed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4040 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.4 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM, LLC | | |
|--------------------------|--|--|
| TRACY HILLARD | | |
| 705 W WADLEY AVE. | | |
| MIDLAND TX, 79705 | | |
| Fax To: | | |
| 01/31/2025 | Sampling Date: | 01/31/2025 |
| 02/03/2025 | Sampling Type: | Soil |
| BEU 2481249H | Sampling Condition: | Cool & Intact |
| 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| XTO 32.62085, -103.83132 | | |
| | TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: 01/31/2025 02/03/2025 BEU 2481249H 03C155877 03C1558453 | TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:Sampling Date: Sampling Type:01/31/2025Sampling Type:02/03/2025Sampling Type:BEU 2481249HSampling Condition:03C155877 03C1558453Sample Received By: |

Sample ID: PH 03 4 (H250597-02)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 01/31/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 95.5 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 91.3 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 01 5 (H250597-03)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 01/31/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 103 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 99.5 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 01 6 (H250597-04)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 01/31/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 104 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 100 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-----------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |

XTO 32.62085, -103.83132

Sample ID: PH 01 9 (H250597-05)

Project Location:

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 01/31/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 101 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.2 | % 49.1-14 | | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| ENSOLUM, LLC TRACY HILLARD | | |
|-------------------------------|--|--|
| MIDLAND TX, 79705 | | |
| Fax To: | | |
| 01/31/2025 | Sampling Date: | 01/31/2025 |
| 02/03/2025 | Sampling Type: | Soil |
| BEU 2481249H | Sampling Condition: | Cool & Intact |
| 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| XTO 32.62085, -103.83132 | | |
| | TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: 01/31/2025 02/03/2025 BEU 2481249H 03C155877 03C1558453 | TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:Sampling Date:01/31/2025Sampling Type:02/03/2025Sampling Type:BEU 2481249HSampling Condition:03C155877 03C1558453Sample Received By: |

Sample ID: PH 04 4 (H250597-06)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 01/31/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1010 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | 179 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | 41.8 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 101 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 99.7 | % 49.1-14 | 8 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 02 1 (H250597-07)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/31/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 01/31/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 01/31/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | 135 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | 54.7 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.3 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.2 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
|------|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500CI-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

| | | CHVI |
|---|----------|-----------------|
| 3 | 1-01-000 | N-DE-CIIS |
| | | TODY AN |
| | | UD ANAL |
| | | YSIS REC |
| | | DUEST |

| | (575) 393-2326 FAX (575) | FAX (575) 393-2476 | 76 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | 1 | | |
|---|---|---|---------------------|--------------------------------|----------------------------|------------------|------------------|-----------------------------|-----------------|----------|------------------------------|----------------------------|-----------------------------|---|--|---------------|-----------|--------------------|----------|------------------------------------|--------------|--------------------------|--------------|--------|-----|-----------------------|--------|------|-----|----------------------------------|----|----|---|---|
| Company Name: Ensolum, LLC | | | | | | | | | | | | | 31 | BILL TO | | | | | | ANALYSIS | ٦ŀ | ŝ | | 18 | 12 | REQUEST | Ĩ | - | | - | | - | | |
| Project Manager: | Trees Hil | Hillord | | | | | | | 1 | P.O. #: | # | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 601 N N | St | uite 400 | | | | | | | 0 | on | Company: | ny | | XTO Energy, Inc | nc | _ | | | | | | | | | | | | | | | | | | |
| City: Midland | | State: TX | Zip: 79701 | 797 | 701 | | | | - | Attn: | | Co | Iton | Colton Brown | | | | | | | _ | | | | | | | | | | | 11 | | |
| Phone #: 575 | 15-937-3906 | Fax #: | | | | | | | - | dd | fres | ŝ | 3 | Address: 3104 E Greene | St | | | | | | | | | | | | | | | | | | | |
| \sim r | 2 | USS Project Owner: | | XTO Energy | Ene | ergy | | | - | City: | r. | Ca | Carlsbad | ad | | | | | | | | | | | | | | | | _ | | | | - |
| Project Name: | D A BEL | 1 298/24 | 9 | F | | | | | 10 | Sta | State: | MN | > | Zip: 88220 | | | | | | | | | | | | | | | | | | | | |
| Project Location: | 58029 62 | -103. | w. | 2 | ٢ | | | | _ | Pho | Phone #: | * | | | | | | | _ | | | | | | | | | | | _ | | | | |
| Sampler Name: | Fron R | | | | | | | | _ | Fax #: | # | 1 | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | - | | | | | | MATRIX | R | | | PRESERV. | SE | RV. | SAMPLING | NG | | | | | | - | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | Depth (feet) | G)RAB OR (C)OMP. | CONTAINERS | BROUNDWATER | VASTEWATER | SOIL | DIL | SLUDGE | OTHER : | ACID/BASE: | CE/COOL | OTHER : | DATE | TIME | TPH 8015 | BTEX 8021 | Chloride 4500 | | | | | | | | | | | | | | | | |
| the shere | LUNG | - | 6. (| # | C | V | < 5 | | \$ | 0 | / | $\leq $ | (| 5 | 1025 | > | 5 | 1 | | | | | - | | | | | | | - | | | | _ |
| -ن | ONO3 | 4 | 6 | | | | 5 | | | | | 5 | | 1/3/15 | 1208 | 5 | 5 | 5 | | | - | | + | | | | | | | _ | | | | |
| 2 9 |) UKO | S. | 6 | | | | 5 | | | | | < | | 1/3425 | 1230 | 5 | 5 | 5 | | | - | | +- | | | | | | | - | | | | |
| <i>د</i> ر | 10HC | 6 | 6 | | | | 4 | | | | | 5 | | 1/31/25 | 1235 | 5 | < | 5 | | | - | | - | | - | | | | | | | | | |
| Л. | 1040 | 0 | 5 | | | | 5 | | | | | < | + | 51/1C/1 | 512 | < | | , < | | | + | | + | | - | | | | | | | | | |
| 10 | PH04 | 4 | 9 | | | | 5 | | | | | < | | 1/31/25 | 204 | 2 | < | < | | | + | | + | | + | | T | | | | | | T | |
| ير | 0402 | 1 | 5 | | | | < | | | | | 5 | , | 51151 | 414 | 4 | 5 | 5 | | | | | | | | | | | | | | | | |
| | | | - | | | | | | | | | | | | | | | the party | | | | | | | | | | | | | | | | |
| PLEASE NOTE: Liability an analyses. All claims includir conside In processor chall Co | 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 applicable analyses. All claims including those for negligeneet 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 analyses. All claims including those for negligeneet 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 analyses. All claims including those for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, | nd client's exclusive remedy for other cause whatsoever shall by consequental damages, includir | any clai e deeme | m arisi ed waiv ut limit | ing wh ved un ation, | hether hess m | based hade in | in con writin errupti | g and ons, k | or tor | t, shall ived b f use, | I be li y Car or los | imited idinal ss of p | to the amount paid b within 30 days after c rofits incurred by clie | y the client for the ompletion of the nt, its subsidiarie | applica s, | ble | | | | | | | | | | | | | | | | | |
| affiliates or successors arising Relinquished By: | fifiliates or successors arising out of or related to the perform Relinquished By: | Date: Received By: | R | Received By: | Ved | By | | SUCIO | A data | 0 000 | in nac | | 10.00 | | Verbal Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email address: | are e | mailed. | Yes □ d. Please | ase prov | Add'l Phone #: ide Email addres | d'l P Ema | hon il ad | e #: Idre | SS: | | | | | | | | | | |
| No al | P | Time: | |) J | - | 2 | 2 | ~ | 0 | > | | | | | BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com | nsolu | m.com, | TMorris | sey@ | enso | lum. | COM | 17 | lillar | d | DSU | In the | 1.00 | В | | | | | |
| Relinquished By: | | Date: | 7 | Received By: | Vec | By | | | | (| | | | | n.0802418 | 24 | 1604 | 04356 | 1 | * | P | 88 | SN | 1 th | SP | n APP 2432 531235 | E S | w ? | 30 | - | | | | |
| | | Ime: | - | | - | Sal | nnle | Co | ndit | <u>n</u> | - | Ŷ | 市 | CHECKED BY: | nAPP 2432 Turnaround Time: | 24 Tim | N | Standard | ard | | 14 | Bacteri | teria | 0 | N/V | (only) Sample Conditi | nple | 00 | ndi | Bacteria (only) Sample Condition | 3 | | | |
| Delivered By: (Circle One) | ircle One) | Observed lemp. C3. | w | 05 | 1' | | Cool Intact | Intact | < Ct | ° (| | 9 | 1 | | Thermometer ID #113 | D | #113 + | Rush | 14. | R | _ | Cool Intact □Yes □ Ye | ln ln | ∐ Y | S | 0 | bsei | rvec | Te | Observed Temp. °C | ĉ | | | |
| Sampler - UPS - | Bus - Other: | Corrected lemp. Ca. | به | L' | | | | | No | 0 0 | - | | - | AD O | Correction Factor 2.5°C O.UST h | actor | 0.5°C- | Out | 42 | 5 | | | No No | Ľ | ō | S | orre | cte | dTe | Corrected Temp. °C | °° | ľ | | L |

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

CARDINAL

Page 10 of 10



February 03, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BEU 2481249H

Enclosed are the results of analyses for samples received by the laboratory on 01/31/25 17:00.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 05 1' (H250598-01)

| BTEX 8021B | mg | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | 1.15 | 0.500 | 02/03/2025 | ND | 2.37 | 118 | 2.00 | 6.88 | |
| Toluene* | 16.3 | 0.500 | 02/03/2025 | ND | 2.51 | 125 | 2.00 | 11.1 | |
| Ethylbenzene* | 11.9 | 0.500 | 02/03/2025 | ND | 2.54 | 127 | 2.00 | 12.7 | |
| Total Xylenes* | 23.7 | 1.50 | 02/03/2025 | ND | 7.52 | 125 | 6.00 | 12.8 | |
| Total BTEX | 53.1 | 3.00 | 02/03/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 117 | % 71.5-13 | 24 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 2480 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10* | 419 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | 1550 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | 277 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 114 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 89.3 | % 49.1-14 | 18 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 05 2' (H250598-02)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/03/2025 | ND | 2.37 | 118 | 2.00 | 6.88 | |
| Toluene* | 0.215 | 0.050 | 02/03/2025 | ND | 2.51 | 125 | 2.00 | 11.1 | |
| Ethylbenzene* | 0.080 | 0.050 | 02/03/2025 | ND | 2.54 | 127 | 2.00 | 12.7 | |
| Total Xylenes* | <0.150 | 0.150 | 02/03/2025 | ND | 7.52 | 125 | 6.00 | 12.8 | |
| Total BTEX | 0.474 | 0.300 | 02/03/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 120 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/03/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | 20.7 | 10.0 | 02/03/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/03/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 05 3' (H250598-03)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 02/01/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 02/01/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/03/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/03/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/03/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.8 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.0 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 05 4' (H250598-04)

| BTEX 8021B | mg, | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 02/01/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 02/01/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 96.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.6 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVI MIDLAND TX, 7970 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 05 5' (H250598-05)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 02/01/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 02/01/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 103 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.9 | % 49.1-14 | 8 | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE MIDLAND TX, 79705 Fax To: | - | |
|---|---|--|--------------------------------|
| Received: Reported: | 01/31/2025 02/03/2025 | Sampling Date: Sampling Type: | 01/31/2025 Soil |
| Project Name: Project Number: Project Location: | BEU 2481249H 03C155877 03C1558453 XTO 32.62085, -103.83132 | Sampling Condition: Sample Received By: | Cool & Intact Alyssa Parras |

Sample ID: PH 05 6' (H250598-06)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | | |
| Toluene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/01/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | | |
| Total BTEX | <0.300 | 0.300 | 02/01/2025 | ND | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9 | % 71.5-13 | 4 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | | |
| Surrogate: 1-Chlorooctane | 105 9 | % 48.2-13 | 4 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 101 9 | % 49.1-14 | 8 | | | | | | | |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 05 7' (H250598-07)

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 02/01/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 02/01/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 98.9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.8 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To: | | |
|-------------------|--|---------------------|---------------|
| Received: | 01/31/2025 | Sampling Date: | 01/31/2025 |
| Reported: | 02/03/2025 | Sampling Type: | Soil |
| Project Name: | BEU 2481249H | Sampling Condition: | Cool & Intact |
| Project Number: | 03C155877 03C1558453 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62085, -103.83132 | | |

Sample ID: PH 05 8' (H250598-08)

| BTEX 8021B | mg/ | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.33 | 117 | 2.00 | 0.910 | |
| Toluene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.37 | 119 | 2.00 | 2.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/01/2025 | ND | 2.53 | 127 | 2.00 | 1.63 | |
| Total Xylenes* | <0.150 | 0.150 | 02/01/2025 | ND | 7.63 | 127 | 6.00 | 0.157 | |
| Total BTEX | <0.300 | 0.300 | 02/01/2025 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/03/2025 | ND | 416 | 104 | 400 | 7.41 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/31/2025 | ND | 202 | 101 | 200 | 0.762 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/31/2025 | ND | 181 | 90.4 | 200 | 2.52 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/31/2025 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 103 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.8 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. | | | | | | |
|------|---|--|--|--|--|--|--|
| ND | 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 SM4500CI-B does not require samples be received at or below 6°C | | | | | | |
| | Samples reported on an as received basis (wet) unless otherwise noted on report | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| 0 |)CL |): . | 2/5/ | /202. | 59: | 23: | 37 | AM | ſ | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------------------------|----------------------|-------|-----------------|---|---|--|--|------------------|---------|---------|---------|-----------|-------|----------|---------|---------|--------|---------|---------|---------|-----|-----------------|-----|----------|--------------|-------------------|------------|----------------|------------------|---------------|
| Sampler - UPS - Bus - Other: | Delivered By: (Circle Une) | | _ | Relinquished By | MX. | affiliates or successors arising Relinquished By: | service. In no event shall (| PLEASE NOTE: Liability a analyses. All claims includ | | (| N | 1 | 5 | .s | 1-1 | | r | N | (| HOUSTO | iboncos | | Lab I.D. | | | Complet Name | Project Location: | | 220 | Phone #: 574 | City: Midland |
| - Bus - Other: | Circle Une) | | | Y: WOO | ri Al | filiates or successors arising out of or related to the performance Relinquished By: | service. In no event shall Cardinal be liable for incidential or consequential damages, including windows with events that in the based upon any of the above stated reasons of otherwise. | PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any daim arising whether based in contract or tork shall be limited to the amount pad by the current or un- presence. All claims including those for regligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal whitin 30 days after completion of the applicable analyses. All claims including those for regligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal whitin 30 days after completion of the applicable analyses. All claims including those for regligence and any other cause whatsoever shall be deemed waived unless | | 0 000 0 | 2 DACS | SORD | SORD | SORD | CANA | DINC | SUNA | SORCI | COLO | mine | | | Sample I.D. | | Mar 1 | P | 5802975 | A. BREN | 55677 03615 | 5-937-3906 | |
| Corrected Temp. C | Observed Lemp. | | Time: | Date: | Time: | Date: | nsequental damages, including without initiation, cosmon environments and period and of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise once on the services here o | client's exclusive remedy for an her cause whatsoever shall be o | | | 8 | 7 | 0 | ~ | ~- | t. | 3 | 2 | | - | | | Depth (feet) | | | | -103.83132 | PHAN84PC | Project Owner: | Fax #: | State: TX Z |
| 0 | 50 | 3 | | Rec | > | Rec | ardinal, re | ny claim a deemed w | | | S | 8 | Ş | 5 | 1 | 5 | 5 | 6 | - 2 | _ | | - | OR (C | - | \neg | | N | L | XTO Energy | | Zip: 79701 |
| 1. | 1 | | | Received By: | - | Received By: | gardle | rising v aived u | | | | - | + | + | - | - | | + | + | | GRO | JUC | NDWAT | ER | | | | | Ene | | 701 |
| | 20 | Sa | | dB | 2 | d By | ss of w | hether nless r | | | | - | + | + | | | | | | | WA | STE | EWATE | R | 2 | | | | rgy | | |
| | Cool Intact | Sample Condition | | | 2 | | hether | based made in | | | < | 2 | < | | 5 | 5 | < | < | 5 | < | SOI | L | | | MATRIX | | | | | | |
| | Inta | e Co | | Ś | 2 | | such o | n writin | | | | | | | | | | _ | _ | | OIL | 100 | | | XIX | | | | | | |
| No | act | nditi | | 5 | 3 | | aim is | g and ons lo | | | | _ | - | _ | _ | | - | - | - | | SLU | | | | - | T | P | S | C | A | A |
| 5.0 | n | on | | 1 | | | based | r tort, s receive | | | | - | - | - | _ | _ | - | + | - | _ | OTI | - | BASE: | - | P | Fax #: | Phone #: | State: | City: | dre | Attn: |
| | | | | | | | upon | shall be ed by C | | - | | + | + | - | < | K | Z | - | - | ~ | _ | | COOL | | PRESERV. | 11 | e #: | NM | C | Address: | Co |
| | (| SHE | | | | | any of | e limite ardina loss of | \vdash | - | 5 | < | 5 4 | | 7 | - | P | + | | | OT | | | | RV. | | | 4 | Carlsbad | | Iton |
| F | (Initials) | CHECKED BY: | | | | | the above stated re- | I within 30 days after profits incurred by c | | | 1/31/25 | (+/16/1 | 100/00/00 | 1/1/1 | 1/3/1/25 | 1/31/25 | 57/15/1 | 1/2/10 | 1721772 | 1/21/25 | DATE | | | | SAMPLING | | | Zip: 88220 | ad | 3104 E Greene St | Colton Brown |
| Correction Factor .0.5°C | Thermometer ID #113 | Turnaround Time: | nApi | NA PP | BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com | All Results are emailed. Please provide Email address: | asons or otherwise | r completion of the lient, its subsidiarie | | | 1222 | 1001 | 124 | 1233 | 1227 | 1324 | 1101 | 119 | 12/2 | 104 | TIME | | | | ING | | | | | IS | 2 |
| actor | er ID | d Tin | 002 | 147 | nsolu | are e | it. | applica s, | | | < | 1 | 5 | 5 | 5 | < | < | 5 | 5 | 5 | Т | PH | 8015 | | | | | | | | _ |
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| NO | Yes Yes | Cool Intact | P | B | (II | dres | e#: | | t | | | | - | | T | | | | | | T | | | | | | | | | | |
| INC | Yes | act | 25 | 4 | lard | S | | | | | _ | | | - | - | - | _ | _ | - | + | + | | | | | | | | | | |
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Sampler - Jr

P.

No No

+

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

1235

Bacteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C



Project Manager: Trues Company Name: Ensolum, LLC

Hillerd

P.O. #:

BILL TO

ANALYSIS REQUEST

Attn: Colton Brown

Company: XTO Energy, Inc

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

Address: 601 N Marienfeld Street, Suite 400

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Appendix E

NMOCD Correspondence

Ben Belill

| From: | Hamlet, Robert, EMNRD <robert.hamlet@emnrd.nm.gov></robert.hamlet@emnrd.nm.gov> |
|----------|--|
| Sent: | Thursday, January 16, 2025 9:51 AM |
| То: | Brown, Colton S |
| Cc: | Dirkx, Kaylan; Garcia, Amanda; Mcafee, Ashley A; Tacoma Morrissey; Ben Belill; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD |
| Subject: | (Variance Approval) -XTO - Big Eddy Unit 248H- Incident Number NAPP2418043567 |

[**EXTERNAL EMAIL**]

Colton,

The Variance Request for confirmation floor sample size of 1,000 ft2 in the "Area of Investigation" is approved. The "Release Area" will still need confirmation samples representing no more than 200 ft2. Please include this e-mail correspondence in the Remediation Closure Report. I have changed the location and coordinates to match where the majority of the release occurred, which is Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°).

Regards,

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Brown, Colton S <colton.s.brown@exxonmobil.com>
Sent: Thursday, January 16, 2025 7:19 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Garcia, Amanda <amanda.garcia@exxonmobil.com>; Mcafee, Ashley A <ashley.a.mcafee@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill
<bbelill@ensolum.com>

Subject: [EXTERNAL] XTO- Variance Request- Big Eddy Unit 248H- Incident Number

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

Good Morning,

Please see the sampling variance below and supporting documentation attached. Please let me know of any questions or concerns.

Mr. Hamlet,

Based on our discussion today, XTO is submitting a variance request for the confirmation soil sampling requested in the conditions of approval for a Remediation Work Plan. The Work Plan was submitted September 20, 2024 and approved on November 6, 2024 with the following conditions of approval:

• "...Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule."

As discussed on our call, January 15, 2024, the "area of investigation" was investigated to assess the area due to high winds at the time of the release in a northwesterly direction. Vegetation was assessed by a staff biologist, and delineation soil samples were collected within an around the area of investigation. The vegetation was determined to be healthy and similar to the surrounding area and no impacts to soil were identified. As such, XTO proposed continued monitoring of the area of investigation. XTO's goal was to be especially protective of the sparse vegetation in the area and to mitigate any additional disturbance of the area as it is in a mapped area for potential Dune Sagebrush Lizard habitat. Following our conversation, XTO understands the need for confirmation soil sampling of the area, however, to ensure minimal disturbance of the area, XTO proposes a variance of the 200 square foot confirmation soil sample frequency and recommends confirmation soil sample be collected on a 1,000 square foot sampling frequency. We believe this will provide additional confirmation that no impacted soil exists in the area and be protective of the vegetative health and potential habitat of the Dune Sagebrush Lizard.

One note, the coordinates on the OCD portal are incorrect, as stated in the Work Plan: The release was initially reported at the incorrect location but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located on the Big Eddy Unit 248H well pad. The majority of the release is located in Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). However, a portion of the release occurred on State Land managed by New Mexico State Land Office (SLO) in Unit D, Section 36, Township 19 South, and Range 31 East.

The following attachments are included as supporting documentation.

- Figure 1 Site Location Map (showing the correct location)
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Vegetation Survey Transects
- Table 1Soil Sample Analytical Results

Photographic Log

If we can provide any additional information, please let us know.

Thank you

Colton Brown Spill Coordinator

ExxonMobil Upstream Company

3104 E. Greene St. Carlsbad, NM 88220 Cell Phone: 575-988-2390 colton.s.brown@exxonmobil.com

General Information Phone: (505) 629-6116

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

| Page 1 | 1.77 | 01 | 10.7 |
|--------|------|-------|------|
| | | - J - | |

QUESTIONS

Action 428474

| QUESTIONS | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|
| Operator: | OGRID: | | | | | | | | | |
| XTO ENERGY, INC | 5380 | | | | | | | | | |
| 6401 Holiday Hill Road | Action Number: | | | | | | | | | |
| Midland, TX 79707 | 428474 | | | | | | | | | |
| | Action Type: | | | | | | | | | |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) | | | | | | | | | |

QUESTIONS

| nAPP2432531235 |
|--|
| NAPP2432531235 BIG EDDY UNIT 248H @ 30-015-40714 |
| Oil Release |
| Remediation Plan Received |
| [30-015-40714] BIG EDDY UNIT #248H |
| - |

Location of Release Source

| Site Name | BIG EDDY UNIT 248H |
|-------------------------|--------------------|
| Date Release Discovered | 11/19/2024 |
| Surface Owner | Federal |

Incident Details

| Please answer all the questions in this group. | |
|---|-------------|
| Incident Type | Oil Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

Nature and Volume of Release

| Material(s) released, please answer all that apply below. Any calculations or specific justifications for | r the volumes provided should be attached to the follow-up C-141 submission. | |
|---|--|--|
| Crude Oil Released (bbls) Details | Cause: Equipment Failure Producing Well Crude Oil Released: 22 BBL Recovered: 4 BBL Lost: 18 BBL. | |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Producing Well Produced Water Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL. | |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes | |
| Condensate Released (bbls) Details | Not answered. | |
| Natural Gas Vented (Mcf) Details | Not answered. | |
| Natural Gas Flared (Mcf) Details | Not answered. | |
| Other Released Details | Not answered. | |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. | |

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|------|------------|--------|--|
| | | | |

QUESTIONS, Page 2

Action 428474

| QUESTIONS (continued) | | |
|------------------------|--|--|
| Operator: | OGRID: | |
| XTO ENERGY, INC | 5380 | |
| 6401 Holiday Hill Road | Action Number: | |
| Midland, TX 79707 | 428474 | |
| | Action Type: | |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) | |

QUESTIONS

| Nature and Volume of Release (continued) | | |
|---|---|--|
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. | |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | No | |
| Reasons why this would be considered a submission for a notification of a major release | Unavailable. | |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. | | |

| Initial Response | | |
|--|---|--|
| The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury. | | |
| The source of the release has been stopped | True | |
| The impacted area has been secured to protect human health and the environment | True | |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True | |
| All free liquids and recoverable materials have been removed and managed appropriately | True | |
| If all the actions described above have not been undertaken, explain why Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedi | Not answered. ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of | |
| | ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of | |
| | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |
| I hereby agree and sign off to the above statement | Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 11/20/2024 | |

General Information Phone: (505) 629-6116

Operator

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

XTO ENERGY, INC

Midland, TX 79707

6401 Holiday Hill Road

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

QUESTIONS (continued)

OGRID:

Action Number

Action Type:

5380

428474

[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS, Page 3

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Action 428474

| QUESTIONS | |
|--|--|
| Site Characterization | |
| Please answer all the questions in this group (only required when seeking remediation plan approve release discovery date. | al and beyond). This information must be provided to the appropriate district office no later than 90 days after the |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release a | nd the following surface areas: |
| A continuously flowing watercourse or any other significant watercourse | Between 1 and 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between 1 and 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Between 1 and 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Low |
| A 100-year floodplain | Between 1 and 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | Yes |
| | |
| Remediation Plan | |
| Please answer all the questions that apply or are indicated. This information must be provided to the | e appropriate district office no later than 90 days after the release discovery date. |
| Requesting a remediation plan approval with this submission | Yes |
| | ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| Soil Contamination Sampling: (Provide the highest observable value for each, in millig | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 4040 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 3399 |
| GRO+DRO (EPA SW-846 Method 8015M) | 2786 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 53 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 1 |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed et which includes the anticipated timelines for beginning and completing the remediation. | fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, |
| On what estimated date will the remediation commence | 11/20/2024 |

On what date will (or did) the final sampling or liner inspection occur 04/04/2025 On what date will (or was) the remediation complete(d) 04/04/2025 What is the estimated surface area (in square feet) that will be reclaimed 34375 What is the estimated volume (in cubic yards) that will be reclaimed 3800 What is the estimated surface area (in square feet) that will be remediated 34375 What is the estimated volume (in cubic yards) that will be remediated 3800

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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| QUESTI | IONS (continued) | | |
|--|---|--|--|
| Operator: | OGRID: | | |
| XTO ENERGY, INC | 5380 | | |
| 6401 Holiday Hill Road | Action Number: | | |
| Midland, TX 79707 | 428474 | | |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) | | |
| QUESTIONS | | | |
| Remediation Plan (continued) | | | |
| Please answer all the questions that apply or are indicated. This information must be provided to the | e appropriate district office no later than 90 days after the release discovery date. | | |
| This remediation will (or is expected to) utilize the following processes to remediate | e / reduce contaminants: | | |
| (Select all answers below that apply.) | | | |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes | | |
| Which OCD approved facility will be used for off-site disposal | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] | | |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. | | |
| OR is the off-site disposal site, to be used, out-of-state | Not answered. | | |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. | | |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. | | |
| (In Situ) Soil Vapor Extraction | Not answered. | | |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. | | |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. | | |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. | | |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. | | |
| OTHER (Non-listed remedial process) | Not answered. | | |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed el which includes the anticipated timelines for beginning and completing the remediation. | fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, | | |
| to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a | knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or | | |
| 1 | Name: Kailaa Smith | | |

| I hereby agree and sign off to the above statement | Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 02/05/2025 |
|--|---|
|--|---|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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| | | ~ J | 100 |

QUESTIONS, Page 5

Action 428474

| QUESTIONS (continued) | | |
|------------------------|--|--|
| Operator: | OGRID: | |
| XTO ENERGY, INC | 5380 | |
| 6401 Holiday Hill Road | Action Number: | |
| Midland, TX 79707 | 428474 | |
| | Action Type: | |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) | |
| QUESTIONS | | |

| Deferral | Requests | Only |
|----------|----------|------|

| only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. | | | |
|--|----|--|--|
| Requesting a deferral of the remediation closure due date with the approval of this submission | Νο | | |

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Online Phone Directory

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

QUESTIONS, Page 6

Action 428474

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QUESTIONS (continued) OGRID: Operator XTO ENERGY, INC 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 428474 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

| Sampling Event Information | | |
|---|------------|--|
| Last sampling notification (C-141N) recorded | 423806 | |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/31/2025 | |
| What was the (estimated) number of samples that were to be gathered | 8 | |
| What was the sampling surface area in square feet | 1600 | |
| | | |

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. Requesting a remediation closure approval with this submission No

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

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

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CONDITIONS

Action 428474

CONDITIONS

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 428474 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|---|-------------------|
| scwells | The remediation plan is conditionally approved: | 2/6/2025 |
| scwells | Due to the occurrence of multiple releases on top of one another at this site, OCD does not believe it provides equal or better protection of fresh water, public health and the environment to grant a sampling variance request. Five-point composite confirmation samples from the base and sidewalls of all excavations must be collected at a sampling frequency of every 200 square feet per 19.15.29.12(D)1(c) NMAC. | 2/6/2025 |
| scwells | Per the conditions of approval for the remediation plan that was approved on 11/6/24, the "Area of Investigation" must have five-point composite confirmation samples collected at both surface and 5 feet at a sampling frequency of every 1000 square feet. | 2/6/2025 |
| scwells | Submit a remediation closure report to the OCD by 5/7/25. | 2/6/2025 |