ENSOLUM

January 14, 2026

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

**Re: Closure Request**
**Marbob State #001**
**Incident Number nAB1821141249**
**Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* (*CR*) to document assessment and soil sampling activities performed at the Marbob State #001 (Site) (Figure 1). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following an equipment failure at the Site. Based on field observations following excavation, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *CR*, describing Site assessment and excavation activities that have occurred and requesting no further action for Incident Number nAB1821141249.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 19, Township 19 South, Range 29 East, in Eddy County, New Mexico (32.6518211°, -104.1077576°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On July 1, 2018, an equipment failure resulted in the release of approximately 326 barrels (bbls) of produced water into a lined secondary containment and onto the pad surface; all 326 bbls of produced water were unrecoverable. Produced water overfilled the secondary containment on-pad and impacted approximately 3,850 square feet off-pad. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on July 2, 2018, and submitted a Release Notification Form C-141 (Form C-141) on July 23, 2018. The release was assigned Incident Number NAB1821141249.

Souder, Miller & Associates (SMA) was contracted by Matador to complete delineation soil sampling activities and to oversee the remediation of the subject matter release. SMA submitted a *Remediation Closure Report* to the NMOCD on December 07, 2022, however the report was denied on March 16, 2023, for the following reasons:

> *The Closure Report is denied. There is a specific process to have BLM change a karst designation. The OCD follows the BLM, when it comes to karst. The BLM puts together and updates the karst maps. If a site shows as high karst under the current map, that is what we go off. You would need to send the karst study to the BLM and try to get high karst potential downgraded to medium in this area. If they do make changes to the map, let us know and we*

*will honor their decision. Until that time, the incident remains in high karst and needs to be remediated to the strictest closure criteria. Confirmation samples should be collected every 200 ft2. All samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC. All sample depths need to be included on table. Include pictures of excavation before backfilling. A deferral can only be granted once the release is fully delineated.*

SMA oversaw the excavation of the off-pad release extent in accordance with the reclamation requirement for the top 4 feet of soils. Remediation of the impacted areas on-pad was completed to the Maximum Extent Practicable (MEP) prior to backfill. Per the denied *Remediation Closure Report*, SMA did not conduct confirmation floor or confirmation sidewall soil sampling at a frequency of every 200 square feet from the floor of the excavation and every 200 square feet from the sidewalls of the excavation due to the release predating the enactment of 19.15.29.5 NMAC on August 14, 2018.

Ensolum prepared a *Remediation Work Plan* (RWP), which was submitted to NMOCD on September 18, 2025, and was approved with conditions by the NMOCD on November 5, 2025.

*The Remediation Plan is Conditionally Approved. The Variance Request for 400 ft2 floor confirmation sample size is approved. The release area will still need confirmation sidewall samples representing no more than 200 ft2. The Variance Request to use the Environmental Karst Study to ultimately determine the site as "stable" is approved. Any area designated as a "release extent" or "release area" will need to have confirmation samples conducted within the entire boundary of that area. Soil sample locations BH06 and BH07 need to be included in the release extent and must be fully vertically/horizontally delineated. The Variance Request to waive revegetation for the off-pad portion of the release area is denied. 19.15.29.13 NMAC outlines restoration, reclamation, and re-vegetation standards that must be met. Please include all of this documentation in the reclamation/revegetation report. All on and off-pad confirmation sample results must be included in the remediation closure report.*

*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 receptor characterization/proven depth to water determination. Please make sure that the edge of the release extent is accurately defined. 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 work will need to be completed in 90 days after the report has been reviewed.*

## 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, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Site Assessment/Characterization is described below.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-2081 POD1, located on the southwest corner of the Site; this soil boring was advanced on August 12, 2025 to determine depth to water at the Site. The soil boring had a reported depth to groundwater greater than 55 below ground surface (bgs) (measured on August 15, 2025) and a total depth of 55 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, known karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1; the referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.88 miles east 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 potentially underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

On July 21, 2025, Ensolum commissioned a geophysical karst survey using a Bureau of Land Management (BLM) approved third-party cave/karst contractor. The karst survey was conducted by Southwest Geophysical Consulting, LLC, under the supervision of Dave Decker. The findings of the report indicated there was no evidence of karst features within a 200 foot radius of the release footprint or beneath the Site and determined the underlying geology appears to be stable. The karst survey report is included in Appendix B. Based on the findings of the karst survey, unstable geology and/or potential conduits to groundwater through karst features appear to be absent and as such, Matador respectfully requests karst features and unstable geology not be considered as sensitive Site receptors as they relate to the Site.

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH will be applied to the top 4 feet of soil, per 19.15.29.13.D (1) NMAC for the impacted area off-pad.

## CULTURAL AND BIOLOGICAL REVIEW

Matador has complied with the Cultural Properties Protection (CPP) Rule by completing a review of the New Mexico cultural resources information system (NMCRIS) and records maintained by the archaeological records management section (ARMS) of the Historic Preservation Division of the New Mexico Department of Cultural Affairs, in accordance with 4.10.15.9 NMAC. An archaeological survey was conducted by Beaver Creek Archeology and Environmental, and the survey findings were negative for the Site. The survey determined the release area was negative for cultural properties, and as such, the CPP has been followed. The NMSLO Cultural Resources Cover sheet is included in Appendix C. Matador submitted a Right-of-Entry (ROE) form to the NMSLO, and the executed copy is included in Appendix D.

The Site is located within the historical range of the Lesser Prairie Chicken (LPC) and within an NMSLO Candidate Conservation Agreement with Assurances (CCAA) area. Measures to comply with the CCAA include restoration of habitat by removal of the caliche pad, reclamation of the well pad, and revegetation with native species. Construction activities did not occur during breeding, nesting, and early brood-rearing seasons. The Site is not located within the CCAA boundary for the Texas Hornshell mussel. 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. IPaC resources indicated threatened or endangered cactus and bird species are potentially present in the area near the Site. The Site is within proximity of a mapped population of the Sheer's beehive cactus. A presence/absence special status plant species (SSPS) survey was conducted by Ensolum personnel. The survey confirmed that no individual Sheer's beehive cacti were present within the Site and the survey buffer. Findings from the presence/absence survey can be referenced in Appendix E.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

Beginning on April 29, 2025, Ensolum personnel were onsite to complete lateral and vertical delineation of the release extent as indicated by field observations and the *Remediation Closure Report* originally submitted by SMA. Five lateral soil samples (SS01 through SS05) were collected at ground surface and 1-foot bgs to verify the lateral extent on-pad. A total of 12 boreholes (BH01 through BH09 and BH10A through BH10C) were advanced via backhoe, within the release extent to assess the vertical extent of the release. Boreholes BH01 was advanced on-pad to a depth of 15 feet bgs, 10 feet bgs in boreholes BH02 and BH03, 3 feet bgs in borehole BH04, 1-foot bgs in borehole BH05, 11 feet bgs in borehole BH06, and 2 feet bgs in borehole BH07. Boreholes BH08, BH09, and BH10A through BH10C were advanced within the previously excavated and backfilled area off-pad at depths ranging from 4 feet to 6 feet bgs to confirm the off-pad extent was previously adequately reclaimed.

On August 27, 2025, Ensolum personnel returned to the Site to continue lateral delineation of the impacted soil as indicated by laboratory analytical data and field observations. Two lateral soil samples (SS07 and SS08) were collected at ground surface and 1-foot bgs and one lateral soil sample SS06 was collected at 0.5 feet bgs to verify the lateral extent on-pad.

On December 4, December 5, and December 23, 2025, Ensolum personnel were at the Site to complete lateral delineation of impacted soil. Eighteen lateral soil samples (SS02A, SS02B, SS02C, SS03A, SS03B, SS03C, SS04A, SS04B, SS04C, SS06A, SS06B, SS06C, SS07A, SS0B, SS027C, SS08A, SS0B, and SS08C) were collected at ground surface to verify the lateral extent of impacted soil on-pad.

All delineation soil samples were field screened for chloride and TPH utilizing Hach® chloride QuanTab® test strips and a PetroFLAG® Soil Analyzer System, respectively. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix F. Photographic documentation of delineation activities is included in Appendix G.

All 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 Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

## EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on December 3, 2025, impacted and waste containing soil was excavated from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a backhoe, hydrovac, and belly dump trucks. To direct excavation activities, Ensolum personnel screened soil for chloride and TPH utilizing the processes described above. A RWP was submitted to NMOCD on September 18, 2025, to increase confirmation sampling areas to 400 square

feet from the floor of the excavation and 200 square feet from the sidewalls of the excavation. The confirmation sampling variance was approved by the NMOCD on November 5, 2025.

Following the removal of impacted and waste containing soil, Ensolum personnel collected 5-point composite soil samples representing no more than 400 square feet from the floor of the excavation and soil samples representing no more than 200 square feet from the sidewalls of the excavation where applicable. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS38 were collected from the floor of the excavation at depths ranging from of 0.5 feet to 4 feet bgs. Composite soil samples SW01 through SW34 were collected from the excavation sidewalls, in the off-pad excavation portion, ranging in depth from the ground surface to 4 feet bgs.

Following the excavation of the off-pad area Ensolum personnel collected 5-point composite soil samples representing no more than 100 cubic yards (cu yds) from the stockpiled soil excavated. Nine stockpile soil samples (SP01 through SP09) were collected. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 14,663 square feet. A total of approximately 244 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from lateral delineation soil samples SS01 through SS08, SS03A, and SS03C, collected at ground surface and 1-foot bgs, indicated all COC's were in compliance with the Site Closure Criteria and with the reclamation requirement. Laboratory analytical results from lateral delineation soil samples SS02A, SS02B, SS02C, SS03B, SS04A, SS04B, SS04C, SS06A, SS06B, SS06C, SS07A, SS0B, SS027C, SS08A, SS0B, and SS08C, collected at ground surface indicated that all COC's were in compliance with the Site Closure Criteria. Laboratory analytical results for borehole sample locations BH01, BH06, and BH07 indicated concentrations of chloride exceeded the Site Closure Criteria at ground surface, and soils in these areas were removed during excavation activities. Borehole sample locations BH02 through BH05 were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results from borehole sample locations BH08, BH09, BH10A, BH10B, and BH10C indicated all COC concentrations were in compliance with the Site Closure Criteria and with the reclamation requirement at depths ranging from 4 feet bgs to 6 feet bgs.

Laboratory analytical results for excavation floor soil samples collected on-pad (FS01 through FS25) indicated all COC concentrations were compliant with the Site Closure Criteria per NMOCD Table I at depths of 0.5 feet bgs, and excavation floor samples collected off-pad (FS26 through FS38) were compliant with the Site Closure Criteria per NMOCD Table I and the reclamation requirements at depths ranging from 0.5 feet bgs to 4 feet bgs. Laboratory analytical results for excavation sidewall soil samples collected off-pad (SW01 through SW34) indicated all COC concentrations were compliant with the Site Closure Criteria per NMOCD Table I and the reclamation requirements at depths ranging from ground surface to 4 feet bgs. Laboratory analytical results for off-pad excavation stockpile soil samples SP01 through SP09 indicated all COC concentrations were compliant with the strictest Site Closure Criteria per NMOCD Table I. Laboratory results are summarized in Tables 1 through 4 and laboratory analytical reports are included in Appendix H.

## RECLAMATION PLAN

Portions of the release occurred off pad in the adjacent pasture, and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH were applied to the top 4 feet of the subsurface that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan proposes reclamation of the excavated area:

- The excavation was backfilled with excavated and stockpiled topsoil and contoured to match surrounding grade;
- Soil in the vicinity of the release includes: Simona-Bippus Complex, 0 to 3 percent slopes according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on December 23, 2025;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: NMSLO Course (CS) Mixture;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
    - The placement of waddles in areas with a propensity for high run off rates;
    - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
    - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Seeding is anticipated to be completed in the Spring when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

## CLOSURE REQUEST

The release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS08, collected at ground surface and 1-foot bgs, and vertically defined by boreholes BH01 through BH09, BH10A, BH10B, and BH10C, collected at depths ranging from ground surface to 15 feet bgs. Excavation of impacted and waste containing soil was completed, and excavation floor samples FS01 through FS38, collected at depths ranging from 0.5 feet to 4 feet

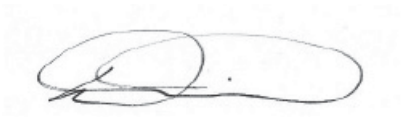
bgs, were all in compliance with the Site Closure Criteria and the reclamation requirements, where applicable. Excavation sidewall samples SW01 through SW34, collected from ground surface to 4 feet bgs, were all in compliance with the Site Closure Criteria and the reclamation requirements.

Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAB1821141249.

If you have any questions or comments, please contact Mrs. Ashley Urzedo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,
**Ensolum, LLC**





Chad Hamilton
Project Geologist

Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

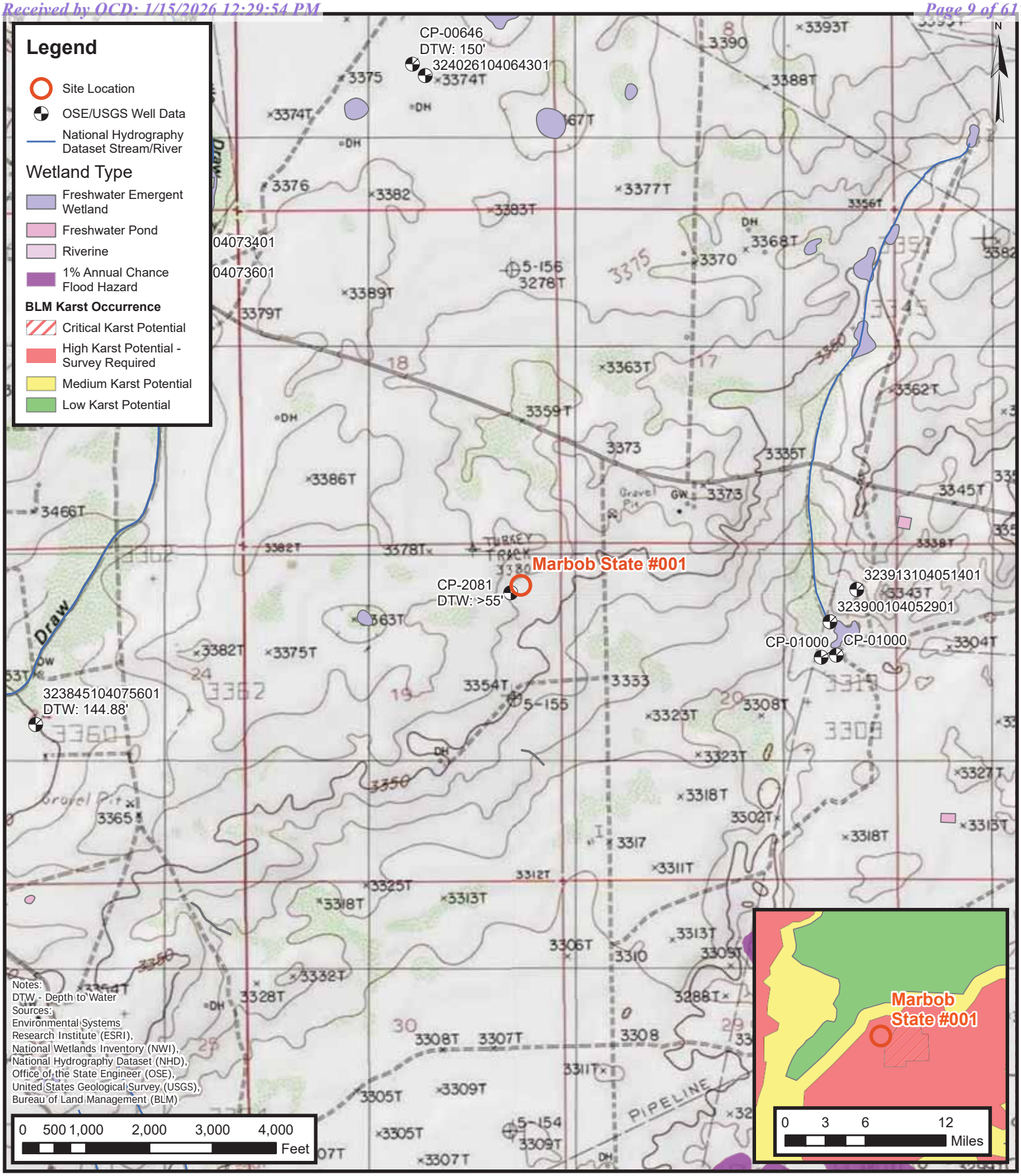
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**Appendices:**

| | |
|---|---|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Figure 3A | Confirmation Soil Sample Locations |
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| Table 1 | Soil Sample Analytical Results (Delineation Soil Samples) |
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| Table 3 | Soil Sample Analytical Results (Sidewall Soil Samples) |
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| Appendix A | Well Record and Log |
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| Appendix F | Lithologic Soil Sampling Logs |
| Appendix G | Photographic Log |
| Appendix H | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix I | NMOCD Correspondence |
| Appendix J | Previous Closure Report prepared by SMA |

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# FIGURES

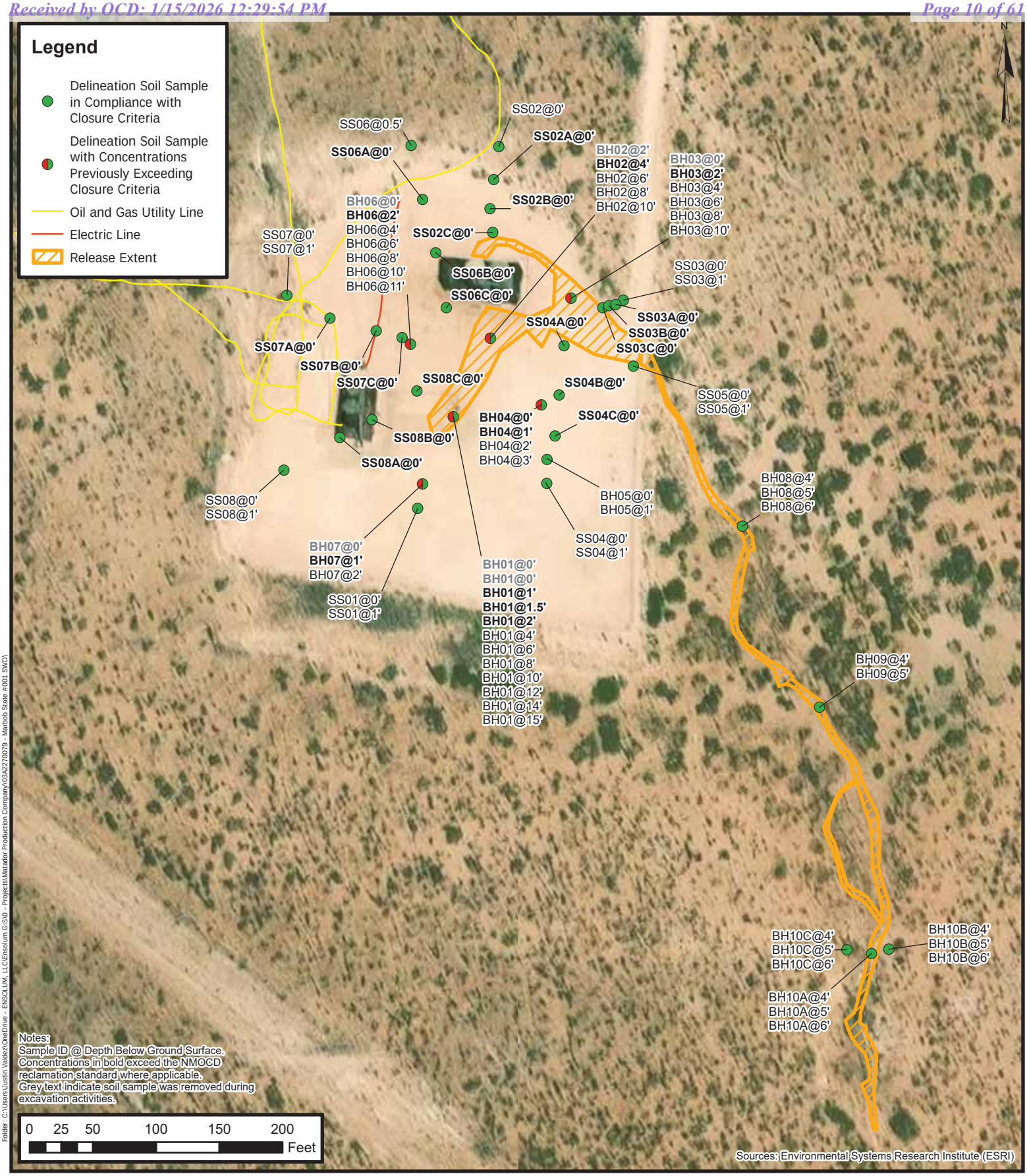



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# Site Receptor Map

Matador Production Company
Marbob State #001
Incident Number: nAB1821141249
Unit A, Section 19, T 19S, R 29E
Eddy County, New Mexico

**FIGURE 1**



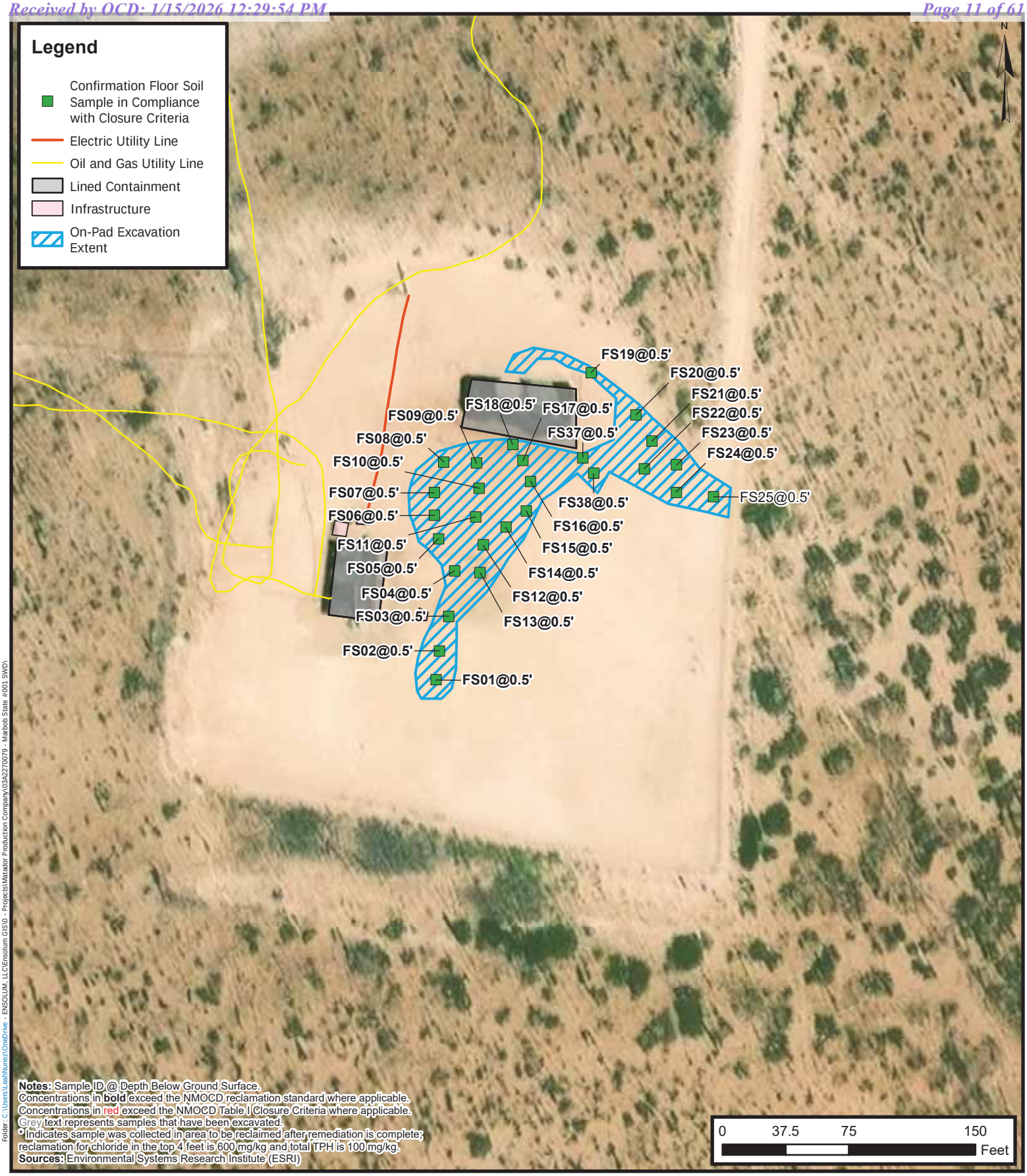

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# Delineation Soil Sample Locations

Matador Production Company
Marbob State #001
Incident Number: nAB1821141249
Unit A, Section 19, T 19S, R 29E
Eddy County, New Mexico

**FIGURE 2**




**Notes:** Sample ID @ Depth Below Ground Surface.
Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.
Concentrations in red exceed the NMOCD Table I Closure Criteria where applicable.
Grey text represents samples that have been excavated.
* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.
**Sources:** Environmental Systems Research Institute (ESRI)

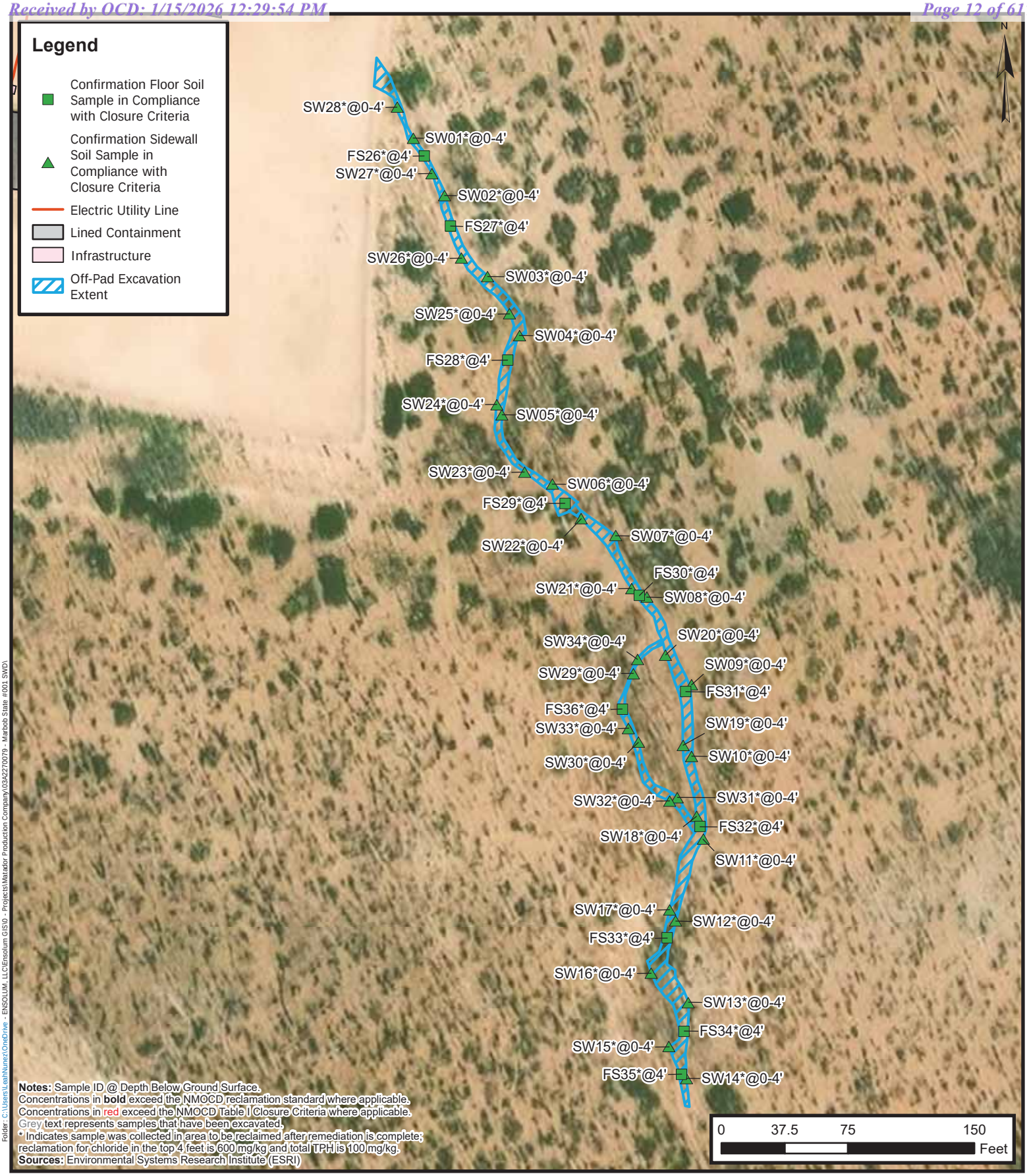
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# Confirmation Soil Sample Locations

Matador Production Company
Marbob State #001
Incident Number: nAB1821141249
Unit A, Section 19, T 19S, R 29E
Eddy County, New Mexico

**FIGURE 3A**




**Notes:** Sample ID @ Depth Below Ground Surface.
Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.
Concentrations in red exceed the NMOCD Table I Closure Criteria where applicable.
Grey text represents samples that have been excavated.
* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.
**Sources:** Environmental Systems Research Institute (ESRI)

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# Confirmation Soil Sample Locations

Matador Production Company
Marbob State #001
Incident Number: nAB1821141249
Unit A, Section 19, T 19S, R 29E
Eddy County, New Mexico

**FIGURE 3B**

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# TABLES

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# TABLE 1
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| **Delineation Soil Samples** | | | | | | | | | | |
| SS01 | 5/1/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 131 |
| SS01 | 5/1/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 26.8 |
| SS02 | 5/1/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 45.4 |
| SS02A | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,680** |
| SS02B | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **3,900** |
| SS02C | 12/23/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **8,260** |
| SS03 | 4/30/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 383 |
| SS03 | 4/30/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 328 |
| SS03A | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 24.2 |
| SS03B | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 192 | 287 | 192 | **479** | 546 |
| SS03C | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 30.1 | <50.0 | 30.1 | <50.0 | 105 |
| SS04 | 5/1/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 98.4 |
| SS04 | 5/1/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 50.0 |
| SS04A | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,050** |
| SS04B | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,110** |
| SS04C | 12/4/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **735** |
| SS05 | 4/30/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 51.1 |
| SS05 | 4/30/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SS06 | 8/27/2028 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 108 |
| SS06A | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **4,490** |
| SS06B | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 25.7 | <50.0 | 25.7 | <50.0 | **4,400** |
| SS06C | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **3,820** |
| SS07 | 8/27/2028 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SS07 | 8/27/2028 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 91.4 |
| SS07A | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 86.4 | 59.0 | 86.4 | **145** | **927** |
| SS07B | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 72.4 | 78.0 | 72.4 | **150** | **1,370** |
| SS07C | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **986** |
| SS08 | 8/27/2028 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 252 |
| SS08 | 8/27/2028 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 361 |
| SS08A | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,520** |

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# TABLE 1 - CONT'D
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| **Delineation Soil Samples** | | | | | | | | | | |
| SS08B | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,620** |
| SS08C | 12/5/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 32.0 | 56.6 | 32.0 | 88.6 | **2,970** |
| BH01 | 5/1/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 119 | 72.7 | 119 | **192** | **18,300** |
| BH01 | 5/14/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **21,300** |
| BH01 | 5/1/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **3,500** |
| BH01 | 5/1/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **2,540** |
| BH01 | 5/14/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **967** |
| BH01 | 5/14/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 3,530 |
| BH01 | 5/14/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 4,120 |
| BH01 | 5/14/2025 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 3,750 |
| BH01 | 5/14/2025 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,280 |
| BH01 | 5/14/2025 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 823 |
| BH01 | 5/14/2025 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 636 |
| BH01 | 5/14/2025 | 15 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 104 |
| BH02 | 5/14/2025 | 0 | <0.0250 | 0.285 | <20.0 | 156 | 257 | 156 | **413** | **1,120** |
| BH02 | 5/14/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,460** |
| BH02 | 5/14/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,790 |
| BH02 | 5/14/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,710 |
| BH02 | 5/14/2025 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,260 |
| BH02 | 5/14/2025 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 241 |
| BH03 | 5/15/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **814** |
| BH03 | 5/15/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,210** |
| BH03 | 5/15/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,420 |
| BH03 | 5/15/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,650 |
| BH03 | 5/15/2025 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1320 |
| BH03 | 5/15/2025 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 145 |
| BH04 | 5/15/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,890** |
| BH04 | 5/15/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **798** |
| BH04 | 5/15/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 400 |
| BH04 | 5/15/2025 | 3 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 246 |

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# TABLE 1 - CONT'D
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| **Delineation Soil Samples** | | | | | | | | | | |
| BH05 | 5/16/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 333 |
| BH05 | 5/16/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 393 |
| BH06 | 5/16/2025 | 0 | <0.0250 | <0.0500 | <20.0 | 209 | 163 | 209 | **372** | **16,500** |
| BH06 | 5/16/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,170** |
| BH06 | 5/16/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,360 |
| BH06 | 5/16/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,880 |
| BH06 | 5/16/2025 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,320 |
| BH06 | 5/16/2025 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 732 |
| BH06 | 5/16/2025 | 11 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 208 |
| BH07 | 5/19/2025 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **31,000** |
| BH07 | 5/19/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,310** |
| BH07 | 5/19/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 152 |
| BH08 | 5/20/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 968 |
| BH08 | 5/20/2025 | 5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 590 |
| BH08 | 5/20/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 382 |
| BH09 | 5/20/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 390 |
| BH09 | 5/20/2025 | 5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 212 |

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# TABLE 1 - CONT'D
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D)** | | | **10** | **50** | **NE** | **NE** | **NE** | **NE** | **100** | **600** |
| **NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs** | | | **10** | **50** | **NE** | **NE** | **NE** | **1,000** | **2,500** | **10,000** |
| **Delineation Soil Samples** | | | | | | | | | | |
| BH10A | 5/20/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BH10A | 5/20/2025 | 5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BH10A | 5/20/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BH10B | 5/20/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 89.4 |
| BH10B | 5/20/2025 | 5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 72.1 |
| BH10B | 5/20/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 45.3 |
| BH10C | 5/20/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 71.9 |
| BH10C | 5/20/2025 | 5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 82.8 |
| BH10C | 5/20/2025 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 70.2 |

***Notes:***

*bgs: below ground surface*
*mg/kg: milligrams per kilogram*
*NMOCD: New Mexico Oil Conservation Division*
*NMAC: New Mexico Administrative Code*
*Grey text represents samples that have been excavated*
*"<": Laboratory Analytical result is less than reporting limit*
*Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.*
*Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.*
*GRO: Gasoline Range Organics*
*DRO: Diesel Range Organics*
*ORO: Oil Range Organics*
*TPH: Total Petroleum Hydrocarbon*
*BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes*
** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

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# TABLE 2
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| **Excavation Floor Soil Samples** | | | | | | | | | | |
| FS01 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,740** |
| FS02 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **1,900** |
| FS03 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **3,730** |
| FS04 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **3,210** |
| FS05 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **3,390** |
| FS06 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 61.7 | 78.7 | 61.7 | **140** | **5,900** |
| FS07 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 93.7 | 88.9 | 93.7 | **183** | **5,990** |
| FS08 | 12/4/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **2,030** |
| FS09 | 12/4/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **4,980** |
| FS10 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 106 | 98.6 | 106 | **205** | **6,510** |
| FS11 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 35.7 | <50.0 | 35.7 | <50.0 | **3,860** |
| FS12 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 26.8 | <50.0 | 26.8 | <50.0 | **5,080** |
| FS13 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 132 | 53.8 | 132 | **186** | **6,960** |
| FS14 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 32.4 | <50.0 | 32.4 | <50.0 | **7,140** |
| FS15 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **5,660** |
| FS16 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **840** |
| FS17 | 12/4/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **6,230** |
| FS18 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 381 | 488 | 381 | **869** | **2,520** |
| FS19 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | **2,690** |
| FS20 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 47.4 | 60.3 | 47.4 | **108** | **3,950** |
| FS21 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 60 | 89.0 | 60 | **149** | **2,270** |
| FS22 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 47.9 | <50.0 | 47.9 | <50.0 | **1,810** |
| FS23 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 115 | 150 | 115 | **265** | **1,130** |
| FS24 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 38.0 | <50.0 | 38.0 | <50.0 | **703** |
| FS25 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 437 |
| FS26* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,530 |
| FS27* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 977 |
| FS28* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 307 |
| FS29* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 75.3 |

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# TABLE 2 - CONT'D
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| **Excavation Floor Soil Samples** | | | | | | | | | | |
| FS30* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 23.9 |
| FS31* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 413 |
| FS32* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 661 |
| FS33* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 502 |
| FS34* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 187 |
| FS35* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 141 |
| FS36* | 12/8/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 58.2 |
| FS37 | 12/3/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 80.9 | 83.7 | 80.9 | **165** | **8,560** |
| FS38 | 12/4/2025 | 0.5 | <0.0250 | <0.0500 | <20.0 | 41.5 | <50.0 | 41.5 | <50.0 | **4,000** |

***Notes:***

*bgs: below ground surface*
*mg/kg: milligrams per kilogram*
*NMOCD: New Mexico Oil Conservation Division*
*NMAC: New Mexico Administrative Code*
*Grey text represents samples that have been excavated*
*"<": Laboratory Analytical result is less than reporting limit*
*Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.*
*Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.*

*GRO: Gasoline Range Organics*
*DRO: Diesel Range Organics*
*ORO: Oil Range Organics*
*TPH: Total Petroleum Hydrocarbon*
*BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes*

** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

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# TABLE 3
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| **Sidewall Soil Samples** | | | | | | | | | | |
| SW01* | 12/9/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 49.2 |
| SW02* | 12/9/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 53.7 |
| SW03* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 173 |
| SW04* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 305 |
| SW05* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 109 |
| SW06* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW07* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 39.5 |
| SW08* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 222 |
| SW09* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 160 |
| SW10* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW11* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 23.8 |
| SW12* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 200 |
| SW13 * | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 115 |
| SW14* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 112 |
| SW15* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 34.0 |
| SW16* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW17* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 221 |
| SW18* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 183 |
| SW19* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 168 |
| SW20* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |

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# TABLE 3 - CONT'D
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| **Sidewall Soil Samples** | | | | | | | | | | |
| SW21* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 471 |
| SW22* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 271 |
| SW23* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW24* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 35.0 |
| SW25* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 27.4 |
| SW26* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 25.0 |
| SW27* | 12/9/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 37.9 |
| SW28* | 12/9/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW29* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 326 |
| SW30* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW31* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 47.4 |
| SW32* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW33* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| SW34* | 12/8/2025 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 286 |

***Notes:***

*bgs: below ground surface*
*mg/kg: milligrams per kilogram*
*NMOCD: New Mexico Oil Conservation Division*
*NMAC: New Mexico Administrative Code*
*Grey text represents samples that have been excavated*
*"<": Laboratory Analytical result is less than reporting limit*
*Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.*
*Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.*

*GRO: Gasoline Range Organics*
*DRO: Diesel Range Organics*
*ORO: Oil Range Organics*
*TPH: Total Petroleum Hydrocarbon*
*BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes*

** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

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# TABLE 4
## SOIL SAMPLE ANALYTICAL RESULTS
## Marbob State #001
## Matador Production Company
## Eddy County, New Mexico

| Sample Designation | Date | 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 Reclamation Requirement (NMAC 19.15.29.13.D)** | | | **10** | **50** | **NE** | **NE** | **NE** | **NE** | **100** | **600** |
| **NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs** | | | **10** | **50** | **NE** | **NE** | **NE** | **1,000** | **2,500** | **10,000** |
| **Sidewall Soil Samples** | | | | | | | | | | |
| SP01 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | 39.8 | <50.0 | <25.0 | <50.0 | 105 |
| SP02 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 101 |
| SP03 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 126 |
| SP04 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 21.2 |
| SP05 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 242 |
| SP06 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 134 |
| SP07 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 259 |
| SP08 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 31.4 |
| SP09 | 12/5/2025 | - | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 28.4 |

***Notes:***

*bgs: below ground surface*
*mg/kg: milligrams per kilogram*
*NMOCD: New Mexico Oil Conservation Division*
*NMAC: New Mexico Administrative Code*
*Grey text represents samples that have been excavated*
*"<": Laboratory Analytical result is less than reporting limit*
*Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.*
*Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.*

*GRO: Gasoline Range Organics*
*DRO: Diesel Range Organics*
*ORO: Oil Range Organics*
*TPH: Total Petroleum Hydrocarbon*
*BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes*

** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

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# APPENDIX A

# Well Record and Log

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

**1. GENERAL AND WELL LOCATION**

| | | |
|---|---|---|
| OSE POD NO. (WELL NO.): Pod 1 | WELL TAG ID NO. | OSE FILE NO(S.): CP-2081 |
| WELL OWNER NAME(S): Matador Production Company | | PHONE (OPTIONAL) |
| WELL OWNER MAILING ADDRESS: 5400 Lyndon B Johnson FWY Suite 1500 | | CITY: Dallas STATE: TX ZIP: 75240 |

| WELL LOCATION (FROM GPS) | | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|---|
| | LATITUDE | 32 | 39 | 5.44 | N |
| | LONGITUDE | 104 | 6 | 29.78 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: S19 T19s R29e

**2. DRILLING & CASING INFORMATION**

| LICENSE NO. | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| WD-1862 | James Hawley | H&R Enterprises, LLC |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 8-12-25 | 8-12-25 | 55' | 55' | N/A |

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 8-18-25

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|---|---|---|---|---|---|---|---|
| 0' | 55' | 6' | No casing left in hole | | | | |

**3. ANNULAR MATERIAL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below) | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|
| | | | N/A | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

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

**4. HYDROGEOLOGIC LOG OF WELL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---|---|---|---|---|
| 0' | 15' | 15' | Sand | Y ✓N | |
| 15' | 20' | 5' | Brown Clay | Y ✓N | |
| 20' | 25' | 5' | Sand | Y ✓N | |
| 25' | 40' | 15' | Red/Brown clay | Y ✓N | |
| 40' | 55' | 15' | Red Sandy Clay | Y ✓N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☑ OTHER – SPECIFY: DTGW Bore

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

**5. TEST; RIG SUPERVISION**

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Depth to groundwater bore was gauged for water on 8-18-25. DTGW bore was Dry. Temporary well casing was removed, bore hole was backfilled from bottom to 10' BGS with drill cuttings. Hydrated Bentonite hole plug was poured from 10' BGS to surface.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Nathan Smelcer

**6. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

James Hawley — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

8-18-25 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

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

# PLUGGING RECORD

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

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-2081 Pod 1

Well owner: Matador Production Company Phone No.: _____

Mailing address: 5400 Lyndon B Johnson FWY Suite 1500

City: Dallas State: TX Zip code: 75240

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: H&R Enterprises, LLC

2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6/16/27

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): _____
Nathan Smelcer

4) Date well plugging began: 8-18-25 Date well plugging concluded: 8-18-25

5) GPS Well Location: Latitude: 32 deg, 39 min, 5.44 sec
Longitude: 104 deg, 6 min, 29.78 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
by the following manner: well sounder

7) Static water level measured at initiation of plugging: N/A ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 7/14/25

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

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

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

| Depth (ft bgl) | Plugging Material Used (include any additives used) | Volume of Material Placed (gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|---|---|---|---|---|---|
| 0' - 10' | Hydrated Bentonite | Approx. 15 gallons | 15 gallons | pour | |
| 10' - 55' | Drill Cuttings | Approx. 67 gallons | 67 Gallons | pour | |

| MULTIPLY | | BY | | AND OBTAIN |
|---|---|---|---|---|
| cubic feet | x | 7.4805 | = | gallons |
| cubic yards | x | 201.97 | = | gallons |

**III. SIGNATURE:**

I, James Hawley , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

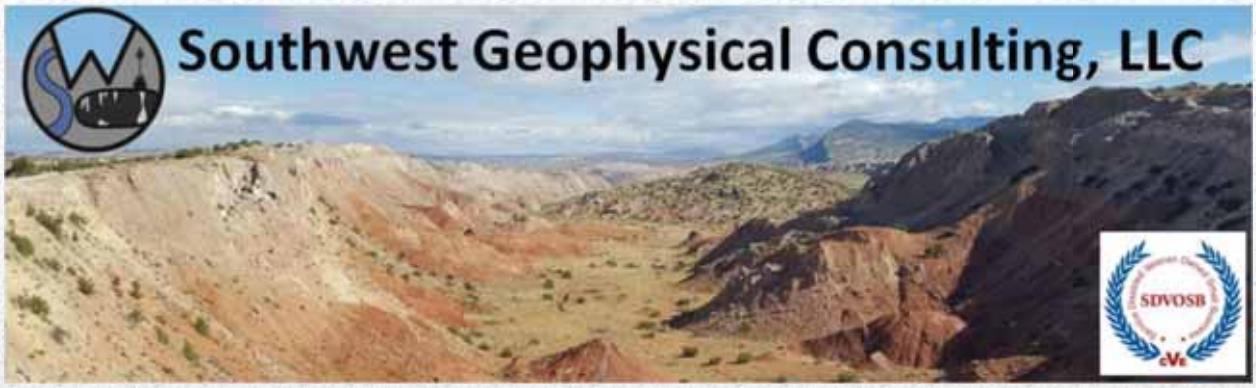
8/18/25
Date

Version: September 8, 2009
Page 2 of 2

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# APPENDIX B

# Karst Survey




# Environmental Karst Study Report
# Matador Marbob State No. 001
# Eddy County, New Mexico

**Prepared For:**

**Ensolum, LLC**
**3122 National Parks Highway**
**Carlsbad, NM 88220**

**Within 200 feet of the spill delineation boundary:**

**☑ Negative ☐ Positive for surface karst**

**☑ Stable ☐ Unstable Ground**

**☐ Karst Monitor Recommended**

**July 21, 2025**

ENS-013-20250617

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Carlsbad, NM 88220

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MMXXV

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## 1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on June 17, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Matador Marbob State No. 001 release site (hereinafter termed “MS01”) centered at N 32.651148° W 104.106833°.

### *1.1 Goals of this Study*

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions[2]) within 200 feet of the spill delineation boundary of the Matador Marbob State No. 001 release as provided by the client via e-mail (**Marbob State No. 001 Off Pad.kmz** and **Marbob State No. 001 On Pad.kmz**) on June 17, 2025, using electrical resistivity imaging[3].

### *1.2 Summary of Findings*

- **No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the MS01 geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.**

### *1.3 Affected Environment*

The MS01 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)[5] (**Figure 1**).

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat [4].

**Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO designated critical or high karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.**

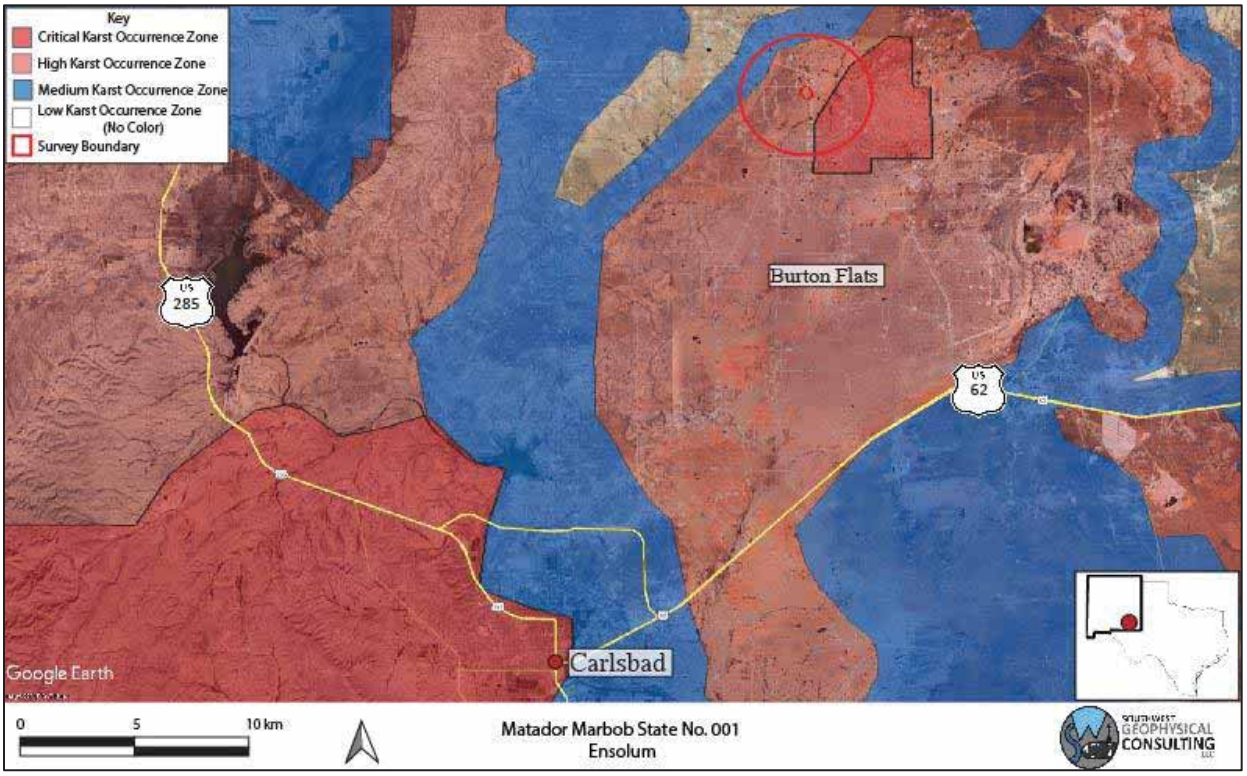



**Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.**

### *1.4 Limitations of Report*

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section *2.3 Description of Survey*. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

## 2.0 LOCATION AND DESCRIPTION OF STUDY AREA

### *2.1 Description of Site*

The site is located 28.3 kilometers (17.6 miles) northeast of Carlsbad, New Mexico, south of Curry Comb Road and east of Buckskin Road. The release area is located within the NE ¼ section of section 19; NM T19S R29E[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock[7] (see section *2.2 Local Geology Summary* for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ[5] (**Figure 1**) and within NMSLO managed land[10] (**Figure 2**).




**Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.**

### *2.2 Local Geology Summary*

The site for the MS01 survey is located at an elevation of 1,024 meters (3,360 feet), ± 6 meters (19.7 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvial piedmont gravels (Qp), eolian deposits (Qe), and alluvium (Qal)[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)[12].

The Pru overlies the Permian Salado Formation (Psl – not shown in the below image), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format[11].

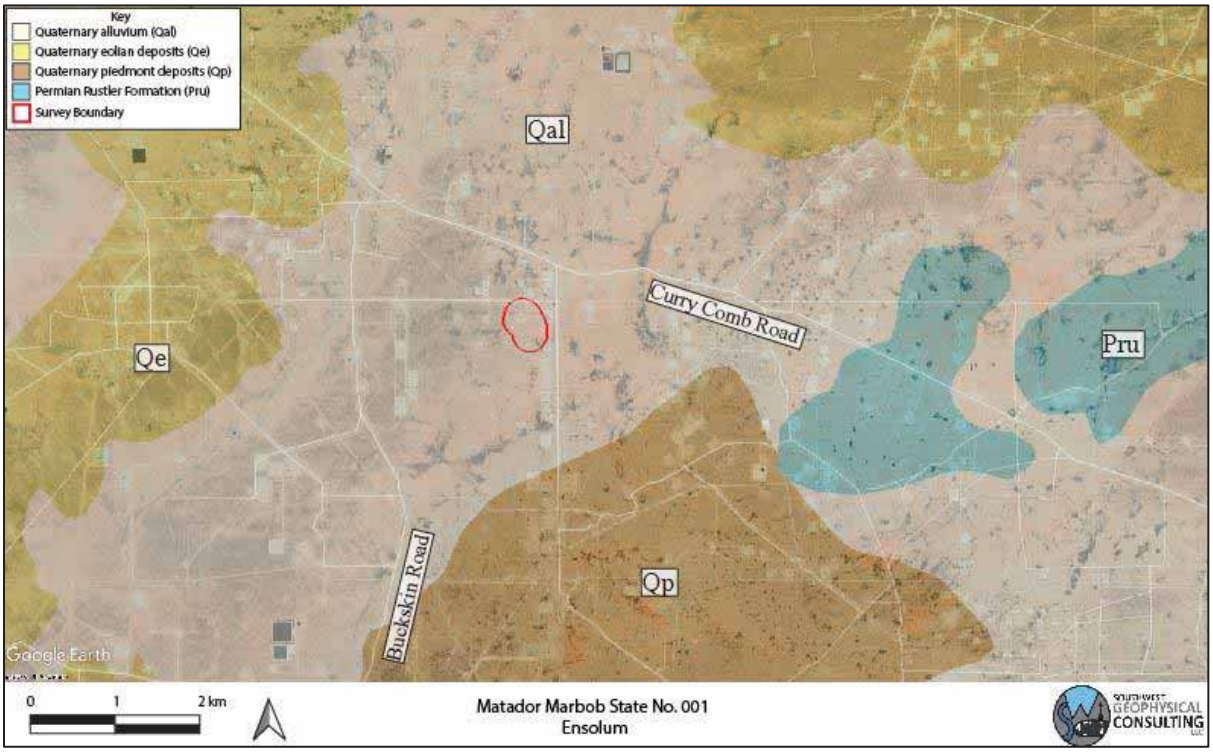



**Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.**

*2.3 Description of Survey*

### 2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance [1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated July 13, 2024 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated May 20, 2025[15]; the Illinois Camp NE, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned one karst feature within the 305-meter survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report[16].

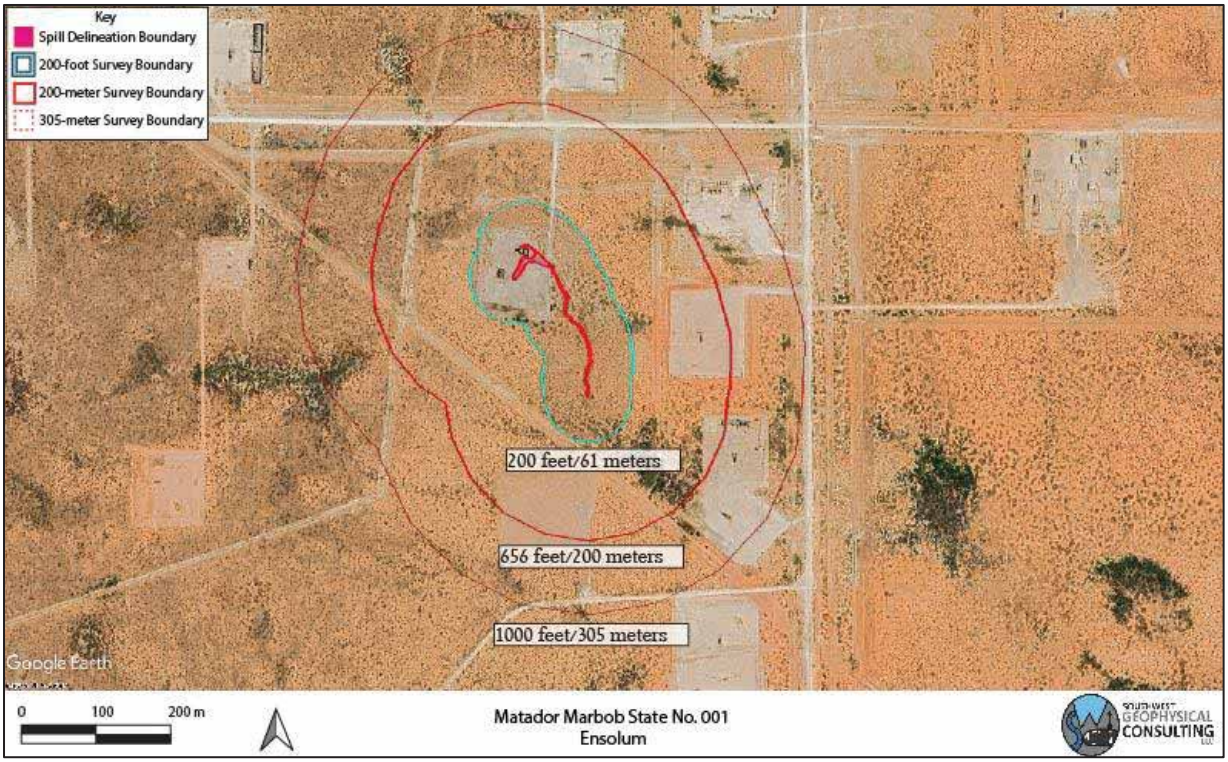



**Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: July 13, 2024. Datum: WGS-84.**

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on June 23, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Britt Bommer of Southwest Geophysical Consulting on July 3, 2025.

### 2.3.2 Geophysical Survey

For this survey, a Guideline Geo Terrameter LS 2 and a 42-electrode array of 40-centimeter-long electrodes were used to image the subsurface. This survey consisted of one resistivity line in a dipole-dipole configuration laid out south to north. This line consisted of 42 electrodes at 5-meter spacing, resulting in a 205-meter-long array (**Figure 5**, **Table 1**). A preconfigured protocol file was used to run the data collection (DipoleDipole3x14). This electrode configuration provided a depth of investigation of 41 meters (135 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

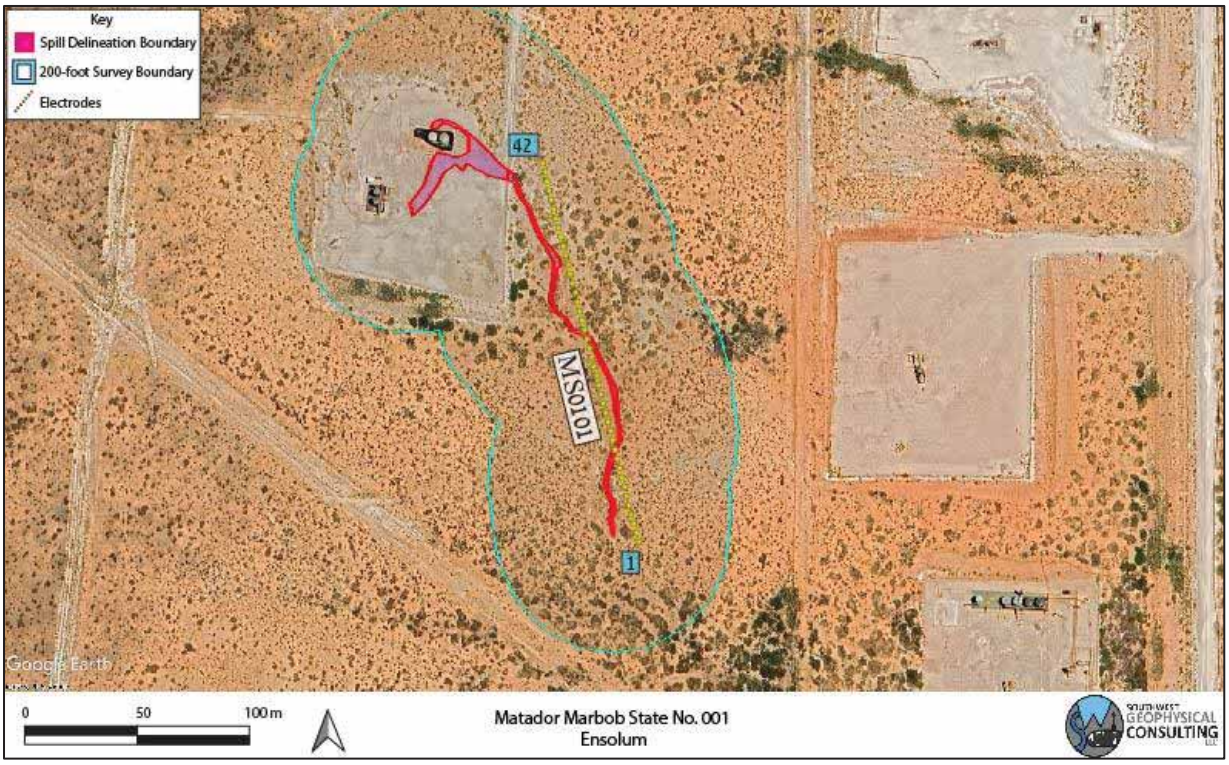



**Figure 5: Geophysical survey overview. One survey line was conducted with 42 electrodes at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.**

**Table 1** provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

**Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files MS01_ERI_Points.xlsx and ENS-013-20250617_MS01_Data_Files.kmz.**

| File Name: | Completed By: | Date: |
|---|---|---|
| MS0101.kmz | Garrett Jorgensen Olague – Senior Field Geologist<br>Britt Bommer – Field Geologist<br>Steven Kesler – Field Geologist | 7/8/2025 |

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of "stable" or "unstable" ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was "average apparent resistivity" and a default inversion setting of "surface," with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

**Table 2: Software Information and Settings**

| | |
|---|---|
| Software Name: | EarthImager™ 2D |
| Version: | 2.4.4.649 |
| Starting Model: | Average Apparent Resistivity |
| Default Inversion Settings: | Surface |
| Changes to Default Inversion Settings: | Max Apparent Resistivity = 100 kΩ-m<br>Min Apparent Resistivity = 0.1 Ω-m |

**Note: Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.**

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Steven Kesler on July 8, 2025.

## 3.0 RESULTS

### *3.1 Surface Karst Survey*

**The desk study and surface karst survey showed no surface karst features located within the 200-foot (61-meter)[1] survey area surrounding the spill delineation boundary** (**Figure 6**).

One recognized surface karst feature is located within the 305-meter survey boundary (**Figure 6**, **Table 3**). Recognized surface karst features are features that are positively identified in either satellite or aerial imagery as karst features and the features have been visited by a qualified karst professional in the field and fully identified. Images for the feature are available on request.

No springs exist within the 305-meter (1,000-foot)[1] survey boundary (**Figure 6**).

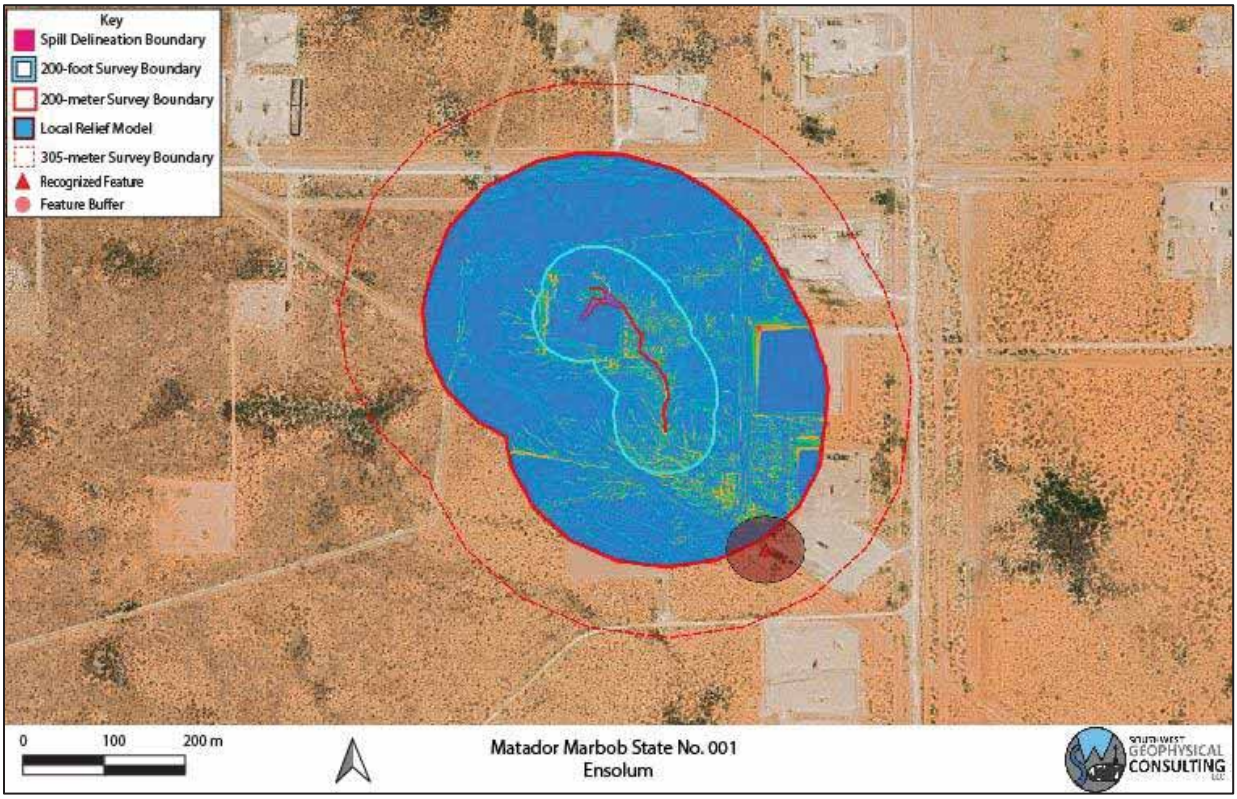



**Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.**

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Employing a BLM-CFO approved karst monitor on site during these activities should be considered.

**Table 3** contains a list of features identified during the surface karst survey and subsequent imagery analysis. Each feature is identified with a feature identification number (Feature ID), the type of feature, estimated size (in meters), recommended buffer (in meters), the likelihood of this feature being a surface karst feature (modifiers H/M for high or medium likelihood, V for field verified), and its location in WGS-84/UTM-13 (EPSG: 32613).

**Table 3: Surface Karst Feature Data Table**

| KF Status | Feature ID | Type | Size (m) | Buffer (m) | Mod | Easting | Northing |
|---|---|---|---|---|---|---|---|
| RKF | 240104-G114 | Collapse Feature | 0.4 | 50 | V | 583905.474 | 3612690.678 |

**NOTE: Location data provided in WGS-84/UTM 13N. RKF – recognized karst feature.**

### *3.2 Geophysical Survey*

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a moderately well-layered geologic system with low resistivities between 19.2 and 240 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

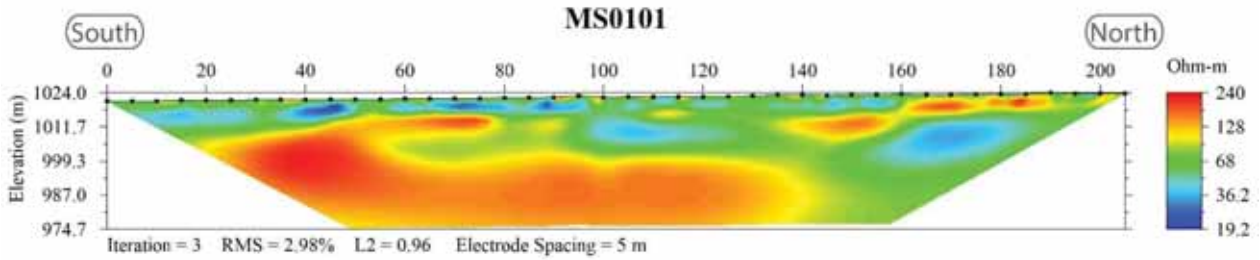



**Figure 7: 2D inverted resistivity section. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.**

## 4.0 DISCUSSION

No surface karst features exist within 200 feet of the spill delineation boundary. One recognized surface karst feature exists outside the 200-**meter** survey boundary, but within the 305-meter survey boundary. This feature is associated with the nearby pipeline and may be either trench collapse caused by soil settling or karst related, with soil raveling into a solution-enlarged fracture or small void beneath the pipeline.

No anomalies consistent with air-filled subsurface voids are found within the MS01 survey area. Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Areas of moderate resistivity (yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation[17] (**Figure 7** and **Figure 8**). Very low-resistivity areas between 19.2 – 25 Ohm-m may either represent fluid from the brine release, surface-to-subsurface hydrologic pathways, or a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5–3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

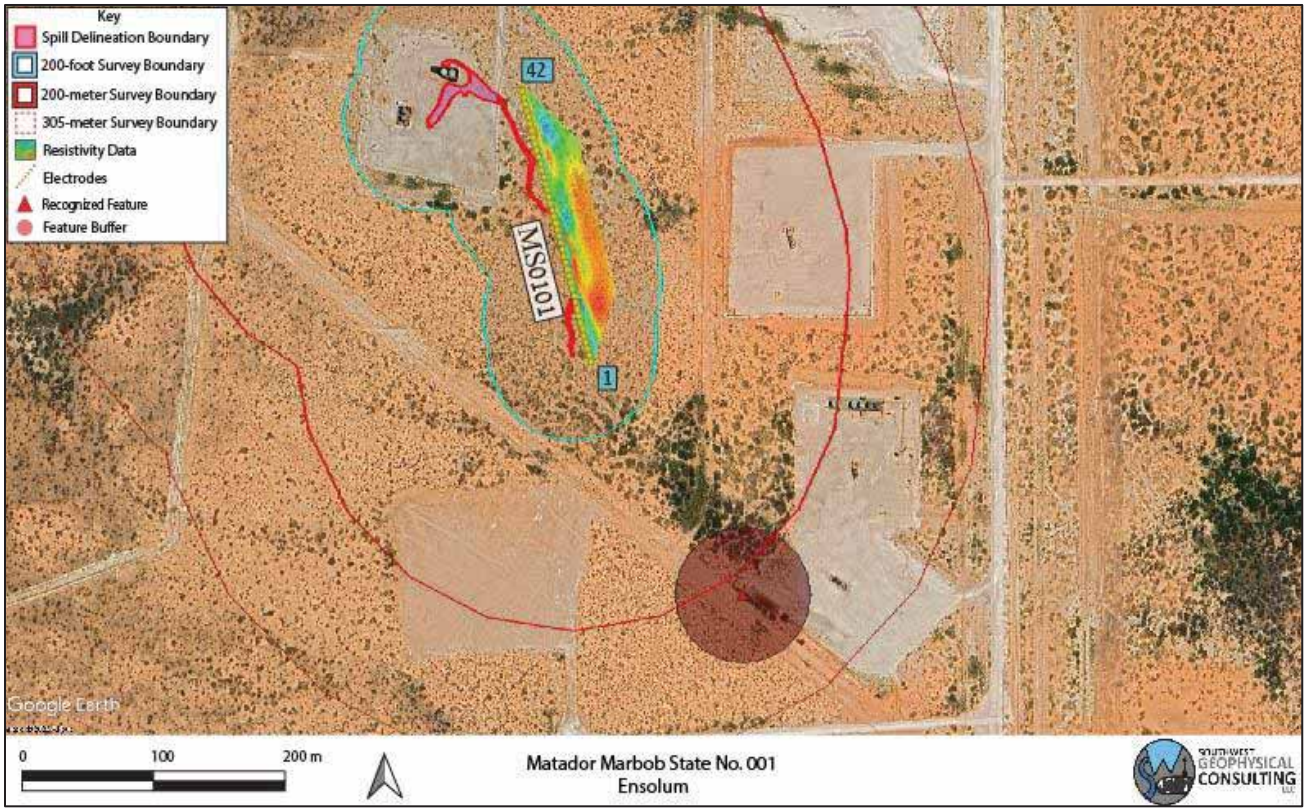



**Figure 8: Data overlay. Colored trapezoid is the 2D inverted resistivity line. Background image credit: Google Earth. Image date: July 13, 2024.**

## 5.0 SUMMARY

- **The MS01 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- One recognized surface karst feature exists within the 305-meter survey boundary.
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the geophysical survey line, indicating stable ground in the area of the subsurface investigation.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

## 6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

## 7.0 REFERENCES


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## 8.0 GLOSSARY OF TERMS

| | |
|---|---|
| AGI | Advanced Geosciences Inc. |
| BLM-CFO | Bureau of Land Management - Carlsbad Field Office |
| brecciated | Fractured rock caused by faulting or collapse. |
| caprock-collapse sinkhole | Collapse of roof-spanning rock into a cave or void. |
| cave | Natural opening at the surface large enough for a person to enter. |
| cover-collapse sinkhole | Collapse of roof-spanning soil or clay ground cover into a subsurface void. |
| ERI | Electrical Resistivity Imaging |
| GPS | Global Positioning System |
| grike | A solutionally enlarged, vertical, or sub-vertical joint or fracture. |
| (H) | High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field. |
| HKOZ | High Karst Occurrence Zone |
| karst | A landscape containing solutional features such as caves, sinkholes, swallets, and springs. |
| (L) | Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features. |
| (M) | Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst). |
| MKOZ | Medium Karst Occurrence Zone |
| NCRC | National Cave Rescue Commission |
| NKF | Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features. |
| NMSLO | New Mexico State Land Office |
| Ohm-m | Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω-m. |
| paleokarst | Previously formed karst features that have been filled in by erosion and/or deposition of minerals. |
| Pat | Permian Artesia Group |
| Pc | Permian Capitan Formation |
| Pcs | Permian Castile Formation |
| Pdl | Permian Dewey Lake Formation |
| PKF | Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the |

| | |
|---|---|
| | field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience. |
| PLSS | Public Land Survey System |
| Pqg | Permian Queen/Greyburg Formation |
| Pru | Permian Rustler Formation |
| pseudokarst | Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes. |
| Psl | Permian Salado Formation |
| Psr | Permian Seven Rivers Formation |
| Pt | Permian Tansill Formation |
| Py | Permian Yates Formation |
| Qal | Quaternary alluvium |
| Qe | Quaternary eolian deposits |
| Qp | Quaternary piedmont deposits |
| Qpl | Quaternary playa lake deposits |
| RKF | Recognized karst feature. This term is reserved for karst features that have been physically verified in the field. |
| SPAR | Small Party Assisted Rescue |
| sUAS | Small, uncrewed aerial system |
| suffosion sinkhole | Raveling of soil into a pre-existing void or fracture. |
| swallet | A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed, "meaning they are full of sediment. |
| SWG | Southwest Geophysical Consulting, LLC |
| UTM | Universal Transverse Mercator (projected coordinates) |
| (V) | Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified |
| WGS | World Geodetic System (geographic coordinates) |

## 9.0 ATTESTATION

**David D. Decker, PhD, PG, CPG**
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## CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-013-20250617 entitled, “Environmental Karst Study Report, Matador Marbob State No. 001, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section *2.3 Description of Survey*.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, July 21, 2025.

David D. Decker
PhD, CPG-12123



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# APPENDIX C

# NMSLO Cultural Resources Cover Sheet

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

# NMSLO Cultural Resources Cover Sheet Exhibit

**NMCRIS Activity Number:** 158326
(if applicable)

**Exhibit Type** (select one)

○ **ARMS Inspection/Review** - Summarize the results (select one):

- ☐ (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- ☐ (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- ☐ (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

◉ **Archaeological Survey**

**Findings:**

- ☑ **Negative** - No further archaeological review is required.
- ☐ **Positive** - Have avoidance and protection measures been devised? Select one: ☐

**Comments:** The NMCRIS records search did not reveal any previously recorded sites within or within 100' of the inventory area. One isolated occurrence (IO), consisting of a piece of burned caliche, was discovered during the current inventory. As no significant cultural materials, features, or

**Project Details:**

NMSLO Lease Number (if available):

Cultural Resources Consultant: Beaver Creek Archaeology, Inc.

Project Proponent (Applicant): Ensolum on behalf of Matador Production Company

Project Title/Description: A Class III Cultural Resources Inventory of Remediation Efforts at Matador's Marbob State #001 in Eddy County, New Mexico

**Project Location:**

County(ies): Eddy

PLSS/Section/Township/Range): T19S R29E S19

---

***For NMSLO Agency Use Only:***

NMSLO Lease Number: ☐ Acknowledgment-Only: ☐

Lease Analyst: ☐

Date Exhibit Routed to Cultural Resources Office: ☐

*No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.*

Form Revised 12 22

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# APPENDIX D

# Executed Right-of-Entry Form

Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands
310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

August 11, 2025

Matador Production Company
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Attn: Jason Touchet

Re: Right-of-Entry Permit No.: RE-7650 – Matador Production Company

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

**The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.**

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Christopher Gutierrez at (505) 827-5773 or cgutierrez@nmslo.gov.

Sincerely,

James S. Bordegaray
Director, Commercial Resources Division

JSB/CLG

**NEW MEXICO STATE LAND OFFICE**
**Commissioner of Public Lands**
**Stephanie Garcia Richard**
**New Mexico State Land Office Building**
**P.O. Box 1148, Santa Fe, NM 87504-1148**

# RIGHT OF ENTRY PERMIT
# CONTRACT NO. RE – 7650

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

**Matador Production Company**
**5400 LBJ Freeway Suite 1500**
**Dallas, TX 75240**

("Permittee"). The parties agree as follows:

## 1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a produced water release on or adjacent to the site of the **Matador Production Company (Incident # NAB1821141249)** and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in **Eddy County**, New Mexico:

| Section | Township | Range | Subdivision | County | Longitude/Latitude |
|---|---|---|---|---|---|
| 19 | 19S | 29E | NENE | Eddy | 32.6518211/-104.1077576 |

## 2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days,** commencing on the execution date of this document by the Commissioner of Public Lands.

## 3. FEES

**$ 50.00 Application Fee**
**$ 500.00 Permit Fee**
**$ 550.00 Total Fee**

**4. CONDITIONS OF USE**

A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.

B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.

C. No sale of any material extracted from the Premises is allowed under this ROE.

D. Permittee shall observe all applicable federal, state, and local laws and regulations.

E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.

F. Permittee shall not block or disrupt roads or trails commonly in use.

G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.

H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.

I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.

J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.

K. Personnel present on Premises: **Matador Production Company personnel and authorized contractors.**

L. Equipment and materials present on Premises: **Vehicles, heavy equipment, and associated equipment.**

**5. SITE CONDITIONS**

A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.

B. Access to the Premises shall be over existing roads.

C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

**6. INDEMNITY**

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

**7. SURVIVAL OF TERMS**

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

**8. NOTIFICATION**

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Jason Touchet

PERMITTEE SIGNATURE

DATE: 8/11/2025

Jason Touchet

EHS Specialist

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: _____

Stephanie Garcia Richard
Commissioner of Public Lands

DATE: 08/13/2025

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# APPENDIX E

# Presence/Absence Survey Report

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# PRESENCE/ABSENCE SURVEY REPORT

Property:
**Marbob State #001**
**Eddy County, New Mexico**
**nAB1821141249**

December 19, 2025

Ensolum Project No.: 03A2770079

Prepared for:

**Prepared for:**
Matador Production Company
5400 LBJ Freeway Suite 1500
Dallas, Tx 75240
**Attn: Mr. Jason Touchet**

Azad Vojdani
Staff Biologist

Chad Hamilton
Project Geologist

ENSOLUM

## TABLE OF CONTENTS

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1.1 Scheer's beehive cactus (Coryphantha robustispina ssp. scheeri)....2

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2.1 Site Description....2

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**3.0 RESULTS....3**

**4.0 CONCLUSION....3**

**5.0 REFERENCES....3**

## APPENDICES

**Appendix A** – Figures

Figure 1: Site Location Map

Figure 2 : Site Survey Map

**Appendix B** – Photographic Log

## 1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared the following Special-Status Plant Species (SSPS) Presence/Absence Survey for the Marbob State #001 (Site), located in Eddy County, New Mexico. The purpose of this SSPS Survey is to survey for the presence of the Scheer's Beehive Cactus (Coryphantha robustispina ssp. scheeri) within and adjacent to the Site.

### 1.1 Scheer's beehive cactus

Scheer's beehive cactus is listed as BLM Sensitive (BLM 2019) and endangered by the State of New Mexico (New Mexico Energy, Minerals and Natural Resources Department [EMNRD] 2023). The New Mexico Rare Plant Conservation Strategy (EMNRD 2025) scorecard analyzed this species as weakly conserved.

Suitable habitat for Scheer's beehive cactus consists of soils with gravelly and loamy components in desert grassland and shrublands, on or surrounding limestone or gypsum benches. This species can be found in areas with nearly level ground to slight slopes, hills, and bajadas between 2,900 and 3,600 feet above mean sea level (amsl) (New Mexico Rare Plant Technical Council [NMRPTC] 2025).

## 2.0 SITE DESCRIPTION AND METHODOLOGY

### 2.1 Site Description

The Site is located in Eddy County, New Mexico, approximately 2,477 feet east of Curry Comb Road. The proposed project footprint encompasses approximately 3,714 square feet and is located on a previously disturbed oil and gas well pad, with an extension of approximately 541 feet to the southeast into adjacent pastureland that has experienced limited prior disturbance. At the time of the site visit, the off-pad area proposed for disturbance had been remediated. The project area is located approximately 9,514 feet north of the nearest known Bureau of Land Management (BLM)–mapped occurrence of Scheer's beehive cactus (BLM, 2025).

The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Simona-Bippus Complex:

Summary of Simona:

- Typical Soil Profile
  - 0 to 19 inches: Gravelly fine sandy loam
  - 19 to 23 inches: Indurated
- Properties
  - Slope: 0 to 3 percent slopes
  - Depth to restrictive feature: 7 to 20 inches to petrocalcic
  - Drainage Class: Well drained
  - Runoff class: Very high

Summary of Bippus:

- Typical Soil Profile
  - 0 to 37 inches: Silty clay loam
  - 37 to 60 inches: Clay loam

- Properties
  - Slope: 0 to 3 percent slopes
  - Depth to restrictive feature: More than 80 inches
  - Drainage Class: Well drained
  - Runoff class: Very low

Additionally, the proposed project area elevation ranges from 3,380 to 3,355 feet amsl, which is within the known elevation range of this species (Figure 1).

### 2.2 Methodology

Prior to the species-specific surveys, biologists reviewed species identification; habitat requirements; Natural Resources Conservation Service (NRCS) soil maps (NRCS 2022); the New Mexico Rare Plants website (NMRPTC 2025); the Energy, Minerals and Natural Resources Department (EMNRD) State endangered plant species list (EMNRD 2021); and the Bureau of Land Management (BLM) Scheer's beehive cactus mapped potential habitat layer (BLM 2022).

Bureau of Land Management (BLM) guidance identifies Scheer's beehive cactus as detectable year-round (BLM, 2025). Presence/absence surveys were conducted using systematic pedestrian transects spaced approximately 33 feet (10 meters) apart within a 328-foot (100-meter) buffer of the proposed project footprint (Figure 2). This transect spacing and buffer distance are consistent with BLM-accepted survey practices for winter conditions, when reduced vegetation productivity enhances visibility and detectability of Scheer's beehive cactus. Survey coverage and effort were documented using a Samsung Galaxy Tab Active Pro paired with a Trimble DA2 Global Navigation Satellite System (GNSS) receiver, which provided an average positional accuracy of approximately 2.0 feet (0.6 meters), to record pedestrian track logs within the survey area.

## 3.0 RESULTS

An Ensolum biologist conducted presence/absence special status plant species (SSPS) surveys within Bureau of Land Management (BLM)–mapped potential habitat for Scheer's beehive cactus on December 17, 2025. A total of approximately 7,241 linear meters of transects were surveyed. The species-specific survey for Scheer's beehive cactus within the proposed project area yielded negative results. During the biological survey, morphologically similar taxa were observed (see Appendix B), including spinystar cactus (*Escobaria vivipara*) and horse crippler cactus (*Homalocephala texensis*). Accurate identification was supported through pre-survey calibration of similar species prior to field implementation.

## 4.0 CONCLUSION

The Site was flagged for being within proximity of a mapped population of Scheer's beehive cactus and a presence/absence survey was conducted in accordance with BLM SPSS standards on December 17, 2025. The survey confirmed that no individual Scheer's beehive cacti were present within the Site and survey buffer. However, suitable habitat was observed for the cactus species and therefore if the scope of the project changes, then a new presence/absence survey will need to be performed before any project related activities take place.

## 5.0 REFERENCES

Baker, M.A. and C.A. Butterworth. 2013. Geographic distribution and taxonomic circumscription of populations within Coryphantha section Robustispina (Cactaceae). American Journal of Botany 100(5): 984-997.

Bureau of Land Management (BLM). 2019. New Mexico Bureau of Land Management Sensitive Plant List. Carlsbad Field Office, New Mexico. Available at https://www.blm.gov/sites/default/files/policies/IB%20NM-2019-002_Attachment%202%20Plants.pdf. Accessed November 2025.

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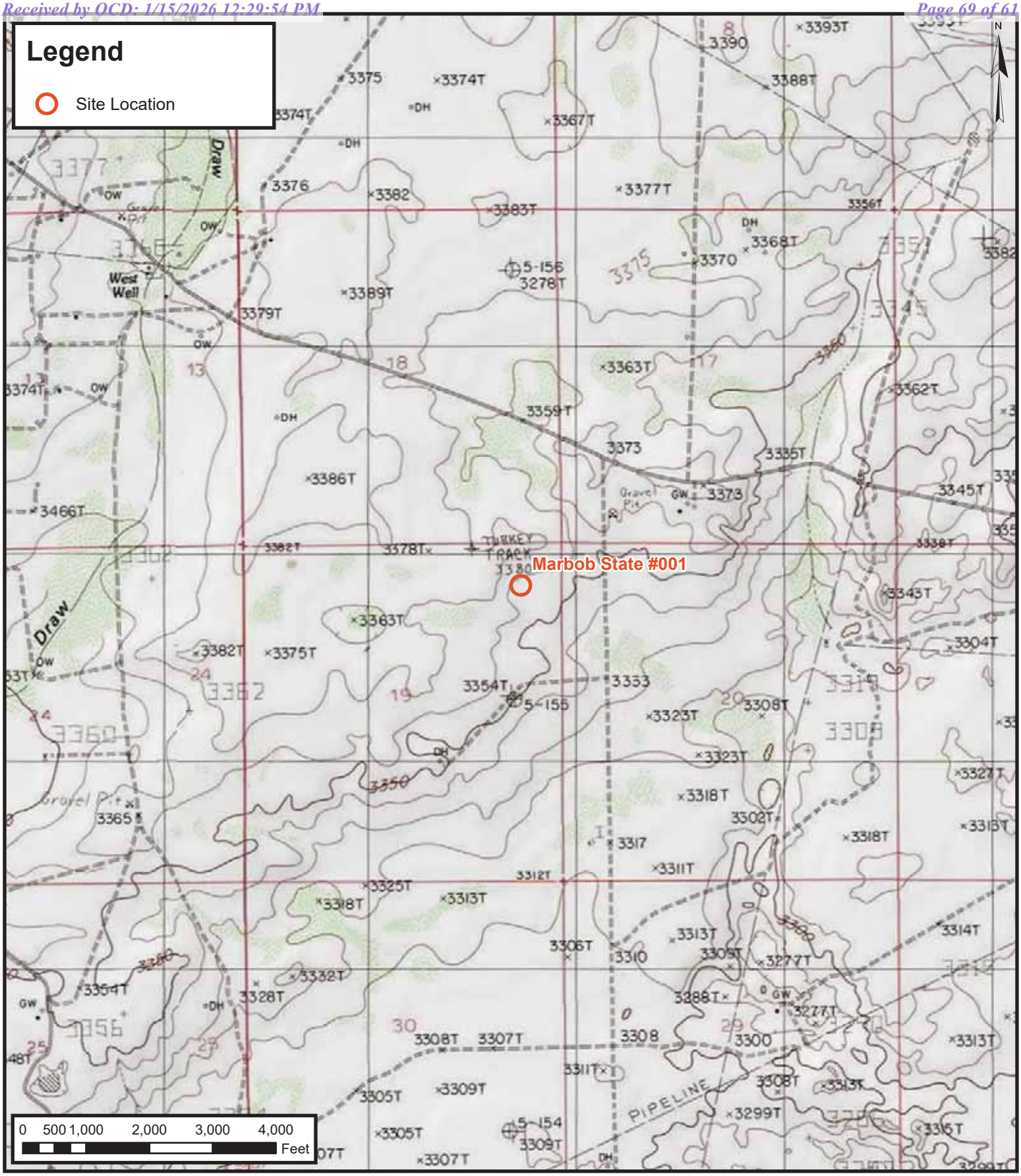
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New Mexico Energy, Minerals & Natural Resources Department, Forestry Division. 2023. *New Mexico State Endangered Plant Species (19.21.2.8 NMAC)*. Available at https://www.emnrd.nm.gov/sfd/wp-content/uploads/sites/4/NM-ENDANGERED-PLANT-List_2023.pdf. Accessed 18 Nov. 2025.

U.S. Bureau of Land Management, "Special-status plant species & Lesser Prairie Chicken habitat (Carlsbad Field Office, NM)," *Wildlife/BLM_NM_Plant_Wildlife_Habitat* MapServer, BLM New Mexico State Office (n.d.), accessed 18 Nov. 2025, https://gis.blm.gov/nmarcgis/rest/services/Wildlife/BLM_NM_Plant_Wildlife_Habitat/MapServer

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# APPENDIX A
# Figures

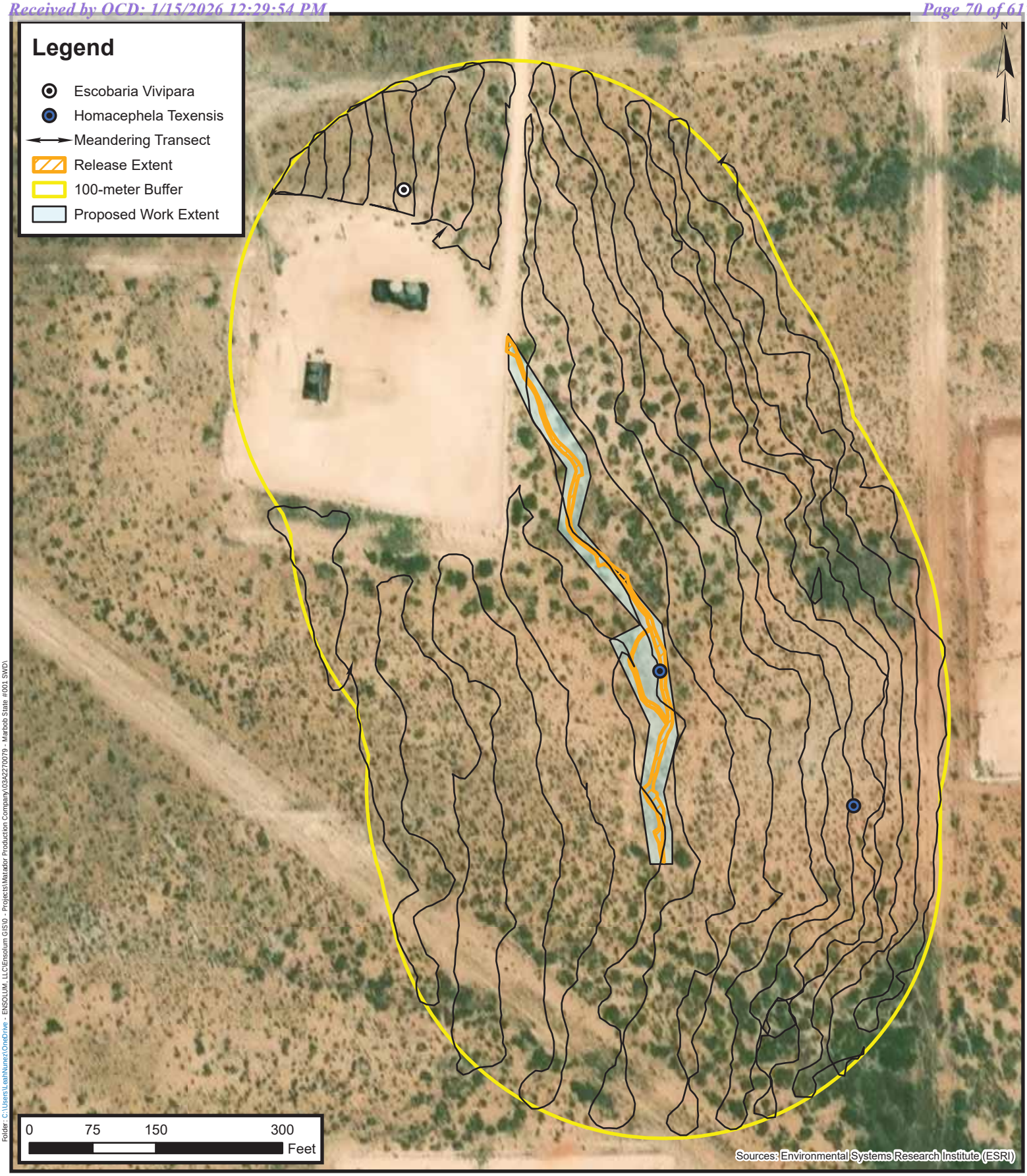



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Environmental, Engineering and Hydrogeologic Consultants

# Site Location Map

Matador Production Company
Marbob State #001
Incident Number: nAB1821141249
Unit A, Section 19, T 19S, R 29E
Eddy County, New Mexico

**FIGURE 1**




Folder: C:\Users\LeahNunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Matador Production Company\03A2270079 - Marbob State #001 SWD\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

# Site Survey Map

Matador Production Company
Marbob State #001
Incident Number: nAB1821141249
Unit A, Section 19, T 19S, R 29E
Eddy County, New Mexico

**FIGURE 2**

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# APPENDIX B
# Photolog

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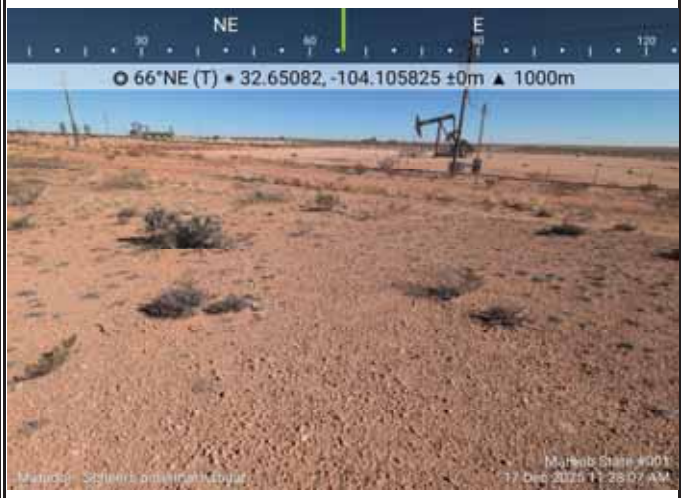
**Photographic Log**
Matador Production Company
Marbob State #001




Photograph: 1 Date: 12/17/2025
Description: Vegetation survey extent
View: South




Photograph: 2 Date: 12/17/2025
Description: Vegetation survey extent
View: Southwest



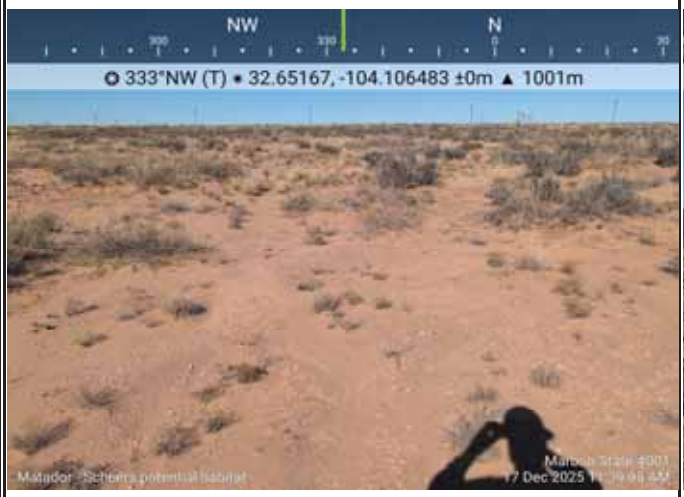

Photograph: 3 Date: 12/17/2025
Description: Potential habitat location
View: East



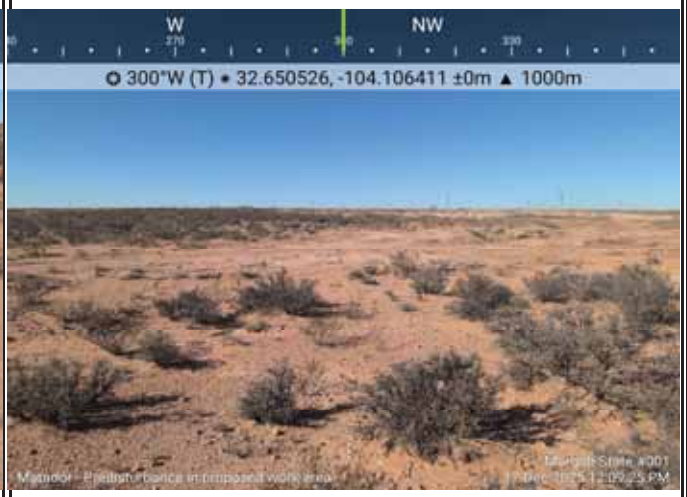

Photograph: 4 Date: 12/17/2025
Description: Similar taxa (Homalocephla texensis)
View: North

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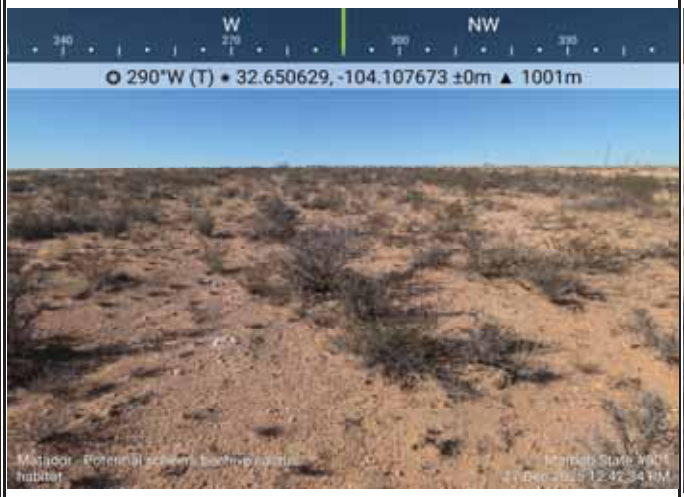
**Photographic Log**
Matador Production Company
Marbob State #001




Photograph: 5 Date: 12/17/2025
Description: Potential habitat location
View: Northwest




Photograph: 6 Date: 12/17/2025
Description: Predisturbed project footprint
View: Northwest




Photograph: 7 Date: 12/17/2025
Description: Potential habitat location
View: West




Photograph: 8 Date: 12/17/2025
Description: Similar taxa (Escobaria vivipara)
View: North

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# APPENDIX F

# Lithologic Soil Sampling Logs

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| | | |
|---|---|---|
| | Sample Name: BH01 | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Backhoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 15 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | 0 | CCHE | Caliche pad Material, Tan, Well graded, No Stain |
| D | 3,460 | | | | 1 | 1 | SW-SM | Well Graded Light Brown Sand, Fine to Medium Grain, Non Cohesive, Massive, Non Stain |
| | 1,338 | | | | 2 | 2 | | |
| | 3,225 | | | | 3 | 3 | SW | Well Graded Light Brown Sand, Fine to Coarse Grain, Non Plastic, Massive, Non Stain, Trace of Gypsum |
| | 2,816 | | | | 4 | 4 | | |
| | 3,460 | | | | 5 | 5 | | |
| | | | N | BH | | | SW-SM | Well Graded Brown Sand, Fine Grain, Non Cohesive, Massive, Non Stain, Trace of Gypsum |
| | 2,637 | | | | 6 | 6 | | |
| M | | | | | | | SC | Clayey Sand, Trace of Gypsum, Non Plastic, No Stain, Massive. |
| | 1,775 | | | | 7 | 7 | | |
| | 2,027 | | | | 8 | 8 | CH | DarkBrownFatClay,Traceofgypsum,High Plasticity NonStain,Massive |
| | 1,775 | | | | 10 | 10 | | |
| | 1,237 | | | | 12 | 12 | SP | Poorly Graded Fine Brown Sand, Non Plastic, No Stain, Massive. |
| | 1,148 | | | | 15 | 15 | | |

Total Depth = 15 ft bgs

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| | | |
|---|---|---|
| | Sample Name: BH02 | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Backhoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 10 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | 0 | CCHE | Caliche pad Material, Tan, Well graded, No Stain, Trace of Gypsum. |
| D | 1,898 | | | | 1 | 1 | SW-SM | Well Graded Light Brown Sand, Fine to Medium Grain, Non Cohesive, Massive, Non Stain |
| | 1,775 | | | | 2 | 2 | SW | Well Graded Light Brown Sand, Fine to Coarse Grain, Non Plastic, Massive, Non Stain, Trace of Gypsum |
| | 1,898 | | | | 3 | 3 | | |
| | 2,027 | | | | 4 | 4 | | |
| | 1,775 | | N | BH | 5 | 5 | SW-SM | Well Graded Brown Sand, Fine Grain, Non Cohesive, Massive, Non Stain, Trace of Gypsum |
| M | 1,439 | | | | 6 | 6 | SM | Clayey Sand, Trace of Gypsum, Non Plastic, No Stain, Massive. |
| | 968 | | | | 7 | 7 | CH | Dark Brown Fat Clay, Trace of gypsum, High Plasticity, No Stain, Massive |
| | 599 | | | | 8 | 8 | | |
| | 599 | | | | 9 | 9 | SP | Poorly Graded Fine Brown Sand, Non Plastic, No Stain, Massive. |
| | 207 | | | | 10 | 10 | | |

Total Depth = 10 ft bgs

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| | | |
|---|---|---|
| | Sample Name: BH03 | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Trachoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 10 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and TPH for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | 0 | CCHE | Caliche pad Material, Tan, Well graded, No Stain |
| D | 1,338 | | | | 1 | 1 | SW-SM | Well Graded Light Brown Sand, Fine to Medium Grain, Non Cohesive, Massive, No Stain, Trace of gypsum |
| | 1,337 | | | | 2 | 2 | | |
| | 2,167 | | | | 3 | 3 | SW | Well Graded Light Brown Sand, Fine to Coarse Grain, Non Plastic, Massive, Non Stain, Trace of Gypsum |
| | 2,027 | | N | BH | 4 | 4 | | |
| | 1,545 | | | | 5 | 5 | | |
| M | 1,148 | | | | 6 | 6 | SW-SM | Well Graded Brown Sand, Fine Grain, Non Cohesive, Massive, Non Stain, Trace of Gypsum |
| | 968 | | | | 7 | 7 | SM | Dark Brown Clayey Sand, Trace of Gypsum, Non Plastic, No Stain, Massive. |
| | 739 | | | | 8 | 8 | CH | Dark Brown Sandy Clay, Well Graded, fine grain, No-Stain, High Plasticity, Cohesive, Massive |
| | ND | 45 | | | 10 | 10 | | |

Total depth = 10 ft bgs

ENSOLUM

| | | |
|---|---|---|
| | Sample Name: BH04 | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Backhoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 15 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | 0 | CCHE | Caliche pad Material, Tan, Well graded, No Stain |
| D | 1,148 | | | | 1 | 1 | | |
| | 537 | | N | BH | 2 | 2 | SP-SM | Dark brown Sand with Silt, fine Grain, Non-Cohesive, No-Stain, trace of Gypsum, Poorly Graded, Massive |
| M | 280 | 50 | | | 3 | 3 | | |
| | 173 | | | | 4 | 4 | SW-SM | Brown Sand with Silt, fine Grain, Non-Cohesive, No-Stain, trace of Gypsum, Well Graded, Massive |

Total Depth = 4 ft bgs

ENSOLUM

| | | |
|---|---|---|
| | Sample Name: BH05 | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Backhoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 15 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | 0 | CCHE | Caliche pad Material, Tan, Well graded, No Stain |
| D | 476 | 112 | N | BH | 1 | 1 | | |
| | 280 | 40 | | | 2 | 2 | SP-SM | Dark brown Sand with Silt, fine Grain, Non-Cohesive, No-Stain, trace of Gypsum, Poorly Graded, Massive |
| M | 420 | | | | 3 | 3 | | |

Total Depth = 3 ft bgs

ENSOLUM

| | |
|---|---|
| Sample Name: BH06 | Date: 5/16/25 |
| Site Name: Marbob State #001 SWD | |
| Incident Number: nAB1821141249 | |
| Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone / Method: Backhoe |
| Coordinates: 32.65194, -104.10786 | Hole Diameter: 2' / Total Depth: 11' |

Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| D | | | N | BH06 | 0 | 0 | CCHE | Caliche pad Material, Tan, Well graded, No Stain, Trace of Gypsum |
| D | 1,338 | | N | BH06 | 1 | 1 | SW-SM | Well Graded Light Brown Sand, Fine to Medium Grain, Non Cohesive, Massive, Non Stain |
| D | 1,148 | | N | BH06 | 2 | 2 | | |
| M | 1,148 | | N | BH06 | 3 | 3 | SW | Well Graded Light Brown Sand, Fine to Coarse Grain, Non Plastic, Massive, Non Stain, Trace of Gypsum |
| M | 1,439 | | N | BH06 | 4 | 4 | | |
| M | 1,148 | | N | BH06 | 5 | 5 | | |
| M | 1,657 | | N | BH06 | 6 | 6 | SW-SM | Well Graded Brown Sand, Fine Grain, Non Cohesive, Massive, Non Stain, Trace of Gypsum |
| M | 1,237 | | N | BH06 | 7 | 7 | SM | Clayey Sand, Trace of Gypsum, Non Plastic, No Stain, Massive |
| M | 812 | | N | BH06 | 8 | 8 | CH | Dark Brown Fat Clay, Trace of gypsum, High Plasticity, No Stain, Massive |
| M | 1,058 | | N | BH06 | 9 | 9 | | |
| M | 476 | 74 | N | BH06 | 10 | 10 | SP | Poorly Graded Fine Brown Sand, Non Plastic, No Stain, Massive |
| M | 207 | | N | BH06 | 11 | 11 | | |

Total Depth @ 11 feet bgs.

ENSOLUM

| | | |
|---|---|---|
| | Sample Name: BH08 | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Backhoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 15 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | 968 | | | | 4 | 4 | | |
| M | 666 | | N | BH | 5 | 5 | SW | Brown Sand, Well Graded, Fine to Coarse Grain trace of Gypsum, No Stain, Non Cohesive, Massive |
| | 420 | 38 | | | 6 | 6 | | |

Total Depth = 6 ft bgs

ENSOLUM

| | | |
|---|---|---|
| | Sample Name: BH09 | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Backhoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 15 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | 593 | | | | 4 | 4 | | |
| M | 296 | 36 | N | BH | 5 | 5 | SP | Brown Sand, Poorly Graded, Fine Grain, No Stain, Non Cohesive, Massive |
| | 156 | | | | 6 | 6 | | |

Total Depth = 6 ft bgs

ENSOLUM

| | | |
|---|---|---|
| | Sample Name: BH10 ABC | Date: 5/14/25 |
| | Site Name: Marbob State #001 | |
| | Incident Number: NAB1821141249 | |
| | Job Number: 03A227079 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Aboubakar Kone | Method: Backhoe |
| Coordinates: 32.6518211, -104.1077576 | Hole Diameter: 2 ft | Total Depth: 15 ft |

Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | TPH (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | ND | | | | 4 | 4 | | |
| M | ND | | N | BH | 5 | 5 | SW | Dark Brown Sand, Well Graded, Fine to Coarse Grain, No Stain, trace of Gypsum, Non Cohesive, Massive |
| | ND | | | | 6 | 6 | | |

Total Depth = 6 ft bgs

ENSOLUM

# APPENDIX G

# Photographic Log

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 1 Date: 04/29/2025
Description: Delineation Soil Sampling Activities
View: North




Photograph 2 Date: 04/29/2025
Description: Delineation Soil Sampling Activities
View: North



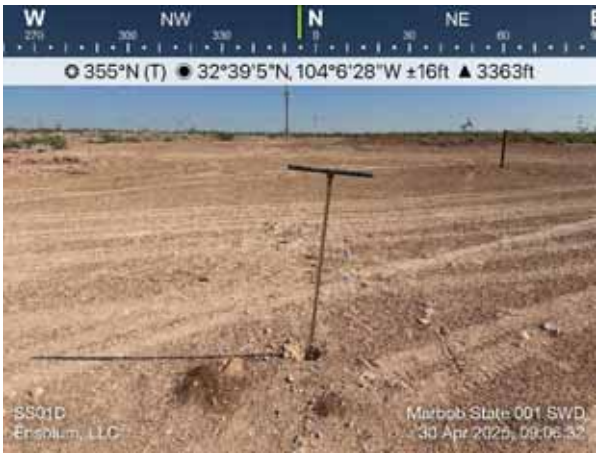

Photograph 3 Date: 04/29/2025
Description: Delineation Soil Sampling Activities
View: North




Photograph 4 Date: 04/29/2025
Description: Delineation Soil Sampling Activities
View: Northwest

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 5 Date: 04/30/2025
Description: Delineation Soil Sampling Activities
View: North




Photograph 6 Date: 04/30/2025
Description: Delineation Soil Sampling Activities
View: West




Photograph 7 Date: 04/30/2025
Description: Delineation Soil Sampling Activities
View: North




Photograph 8 Date: 04/30/2025
Description: Delineation Soil Sampling Activities
View: West

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 9 Date: 05/01/2025
Description: Delineation Soil Sampling Activities
View: North




Photograph 10 Date: 05/14/2025
Description: Delineation Soil Sampling Activities
View: West




Photograph 11 Date: 05/14/2025
Description: Delineation Soil Sampling Activities
View: West




Photograph 12 Date: 05/15/2025
Description: Delineation Soil Sampling Activities
View: Northeast

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 13 Date: 05/15/2025
Description: Delineation Soil Sampling Activities
View: Southwest




Photograph 14 Date: 05/16/2025
Description: Delineation Soil Sampling Activities
View: Northeast




Photograph 15 Date: 05/16/2025
Description: Delineation Soil Sampling Activities
View: Northeast




Photograph 16 Date: 05/16/2025
Description: Delineation Soil Sampling Activities
View: North

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 17 Date: 05/16/2025
Description: Delineation Soil Sampling Activities
View: North




Photograph 18 Date: 05/16/2025
Description: Delineation Soil Sampling Activities
View: Southwest




Photograph 19 Date: 05/16/2025
Description: Delineation Soil Sampling Activities
View: Northeast




Photograph 20 Date: 05/16/2025
Description: Delineation Soil Sampling Activities
View: North

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 21 Date: 05/20/2025
Description: Delineation Soil Sampling Activities
View: Southeast




Photograph 22 Date: 05/20/2025
Description: Delineation Soil Sampling Activities
View: Southwest




Photograph 23 Date: 05/20/2025
Description: Delineation Soil Sampling Activities
View: East




Photograph 24 Date: 04/29/2025
Description: Delineation Soil Sampling Activities
View: East

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 25 Date: 08/12/2025
Description: Depth to Water Boring
View: Southwest




Photograph 26 Date: 08/12/2025
Description: Depth to Water Boring
View: East




Photograph 27 Date: 08/12/2025
Description: Depth to Water Boring
View: Northeast



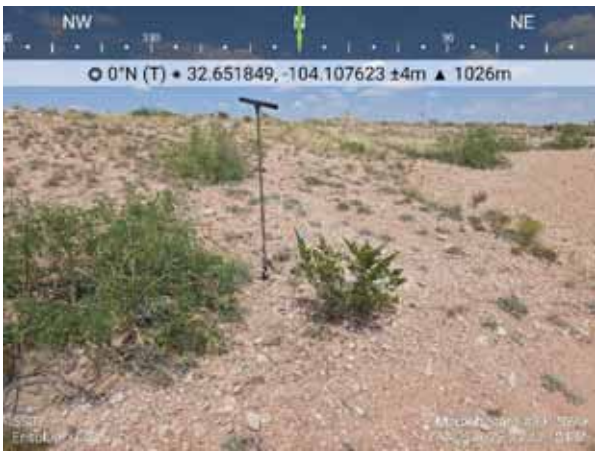

Photograph 28 Date: 05/15/2025
Description: Depth to Water Measurement
View: East

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 29 Date: 08/27/2025
Description: Delineation Soil Sampling
View: North




Photograph 30 Date: 08/27/2025
Description: Delineation Soil Sampling
View: North



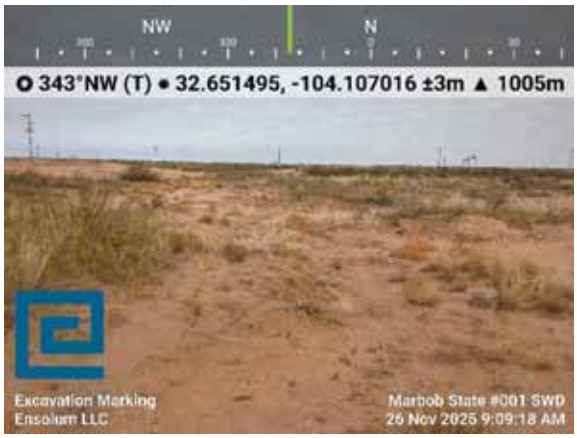

Photograph 31 Date: 08/27/2025
Description: Delineation Soil Sampling
View: Northeast




Photograph 32 Date: 08/27/2025
Description: Delineation Soil Sampling
View: Northeast

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 37 Date: 11/26/2025
Description: Excavation Marking
View: North




Photograph 38 Date: 12/01/2025
Description: Excavation and Hydrovaccing Activity
View: Northeast




Photograph 39 Date: 12/01/2025
Description: Excavation
View: Northeast




Photograph 40 Date: 12/01/2025
Description: Excavation Activity
View: Northeast

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 41 Date: 12/04/2025
Description: Excavation
View: Southeast




Photograph 42 Date: 12/04/2025
Description: Excavation Stockpiles
View: Northwest




Photograph 43 Date: 12/05/2025
Description: Excavation
View: West




Photograph 44 Date: 12/05/2025
Description: Excavation
View: North

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 45 Date: 12/08/2025
Description: Excavation
View: North




Photograph 46 Date: 12/08/2025
Description: Excavation
View: Southwest




Photograph 47 Date: 12/08/2025
Description: Excavation
View: Southwest




Photograph 48 Date: 12/08/2025
Description: Excavation
View: North

ENSOLUM

**Photographic Log**
Matador Production Company
Marbob State #001
Incident Number NAB1821141249




Photograph 33 Date: 09/09/2025
Description: Off-Pad Vegetation
View: South




Photograph 34 Date: 09/09/2025
Description: Off-Pad Vegetation
View: Southeast




Photograph 35 Date: 09/09/2025
Description: Off-Pad Vegetation
View: Northwest




Photograph 36 Date: 09/09/2025
Description: Off-Pad Vegetation
View: Northeast

ENSOLUM

# APPENDIX H

# Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505009 |
| Job Number: | 23003-0002 |
| Received: | 5/2/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/7/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505009
Date Received: 5/2/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/2/2025 7:00:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/07/25 10:40 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS05-0' | E505009-01A | Soil | 04/30/25 | 05/02/25 | Glass Jar, 2 oz. |
| SS05-1' | E505009-02A | Soil | 04/30/25 | 05/02/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 10:40:04AM |

**SS05-0'**

**E505009-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Benzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Toluene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/02/25 | 05/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *84.3 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.6 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2518101 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/02/25 | 05/02/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: n-Nonane* | | *94.6 %* | *61-141* | *05/02/25* | *05/02/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2518107 |
| Chloride | **51.1** | 20.0 | 1 | 05/02/25 | 05/02/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 10:40:04AM |

**SS05-1'**

**E505009-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Benzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Toluene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/02/25 | 05/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *83.5 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.7 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2518101 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/02/25 | 05/02/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: n-Nonane* | | *94.2 %* | *61-141* | *05/02/25* | *05/02/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2518107 |
| Chloride | ND | 20.0 | 1 | 05/02/25 | 05/02/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 10:40:04AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2518103-BLK1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.73* | | *8.00* | | *84.1* | *70-130* | | | |
| **LCS (2518103-BS1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | 4.79 | 0.0250 | 5.00 | | 95.8 | 70-130 | | | |
| Ethylbenzene | 5.39 | 0.0250 | 5.00 | | 108 | 70-130 | | | |
| Toluene | 5.22 | 0.0250 | 5.00 | | 104 | 70-130 | | | |
| o-Xylene | 5.37 | 0.0250 | 5.00 | | 107 | 70-130 | | | |
| p,m-Xylene | 10.9 | 0.0500 | 10.0 | | 109 | 70-130 | | | |
| Total Xylenes | 16.3 | 0.0250 | 15.0 | | 108 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.84* | | *8.00* | | *85.4* | *70-130* | | | |
| **Matrix Spike (2518103-MS1)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | 4.64 | 0.0250 | 5.00 | ND | 92.8 | 70-130 | | | |
| Ethylbenzene | 5.18 | 0.0250 | 5.00 | ND | 104 | 70-130 | | | |
| Toluene | 5.02 | 0.0250 | 5.00 | ND | 100 | 70-130 | | | |
| o-Xylene | 5.16 | 0.0250 | 5.00 | ND | 103 | 70-130 | | | |
| p,m-Xylene | 10.5 | 0.0500 | 10.0 | ND | 105 | 70-130 | | | |
| Total Xylenes | 15.7 | 0.0250 | 15.0 | ND | 104 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.88* | | *8.00* | | *86.1* | *70-130* | | | |
| **Matrix Spike Dup (2518103-MSD1)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | 4.65 | 0.0250 | 5.00 | ND | 92.9 | 70-130 | 0.170 | 27 | |
| Ethylbenzene | 5.19 | 0.0250 | 5.00 | ND | 104 | 70-130 | 0.0858 | 26 | |
| Toluene | 5.02 | 0.0250 | 5.00 | ND | 100 | 70-130 | 0.124 | 20 | |
| o-Xylene | 5.17 | 0.0250 | 5.00 | ND | 103 | 70-130 | 0.250 | 25 | |
| p,m-Xylene | 10.5 | 0.0500 | 10.0 | ND | 105 | 70-130 | 0.252 | 23 | |
| Total Xylenes | 15.7 | 0.0250 | 15.0 | ND | 104 | 70-130 | 0.00 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.72* | | *8.00* | | *84.0* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 10:40:04AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2518103-BLK1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.53* | | *8.00* | | *94.2* | *70-130* | | | |
| **LCS (2518103-BS2)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | 44.9 | 20.0 | 50.0 | | 89.8 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.59* | | *8.00* | | *94.9* | *70-130* | | | |
| **Matrix Spike (2518103-MS2)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | 44.9 | 20.0 | 50.0 | ND | 89.8 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.62* | | *8.00* | | *95.2* | *70-130* | | | |
| **Matrix Spike Dup (2518103-MSD2)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | 49.1 | 20.0 | 50.0 | ND | 98.3 | 70-130 | 9.00 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.78* | | *8.00* | | *97.2* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 10:40:04AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2518101-BLK1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *46.3* | | *50.0* | | *92.6* | *61-141* | | | |
| **LCS (2518101-BS1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Diesel Range Organics (C10-C28) | 249 | 25.0 | 250 | | 99.6 | 66-144 | | | |
| *Surrogate: n-Nonane* | *47.1* | | *50.0* | | *94.2* | *61-141* | | | |
| **Matrix Spike (2518101-MS1)** | | | | **Source: E505013-03** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Diesel Range Organics (C10-C28) | 254 | 25.0 | 250 | ND | 102 | 56-156 | | | |
| *Surrogate: n-Nonane* | *46.6* | | *50.0* | | *93.2* | *61-141* | | | |
| **Matrix Spike Dup (2518101-MSD1)** | | | | **Source: E505013-03** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Diesel Range Organics (C10-C28) | 255 | 25.0 | 250 | ND | 102 | 56-156 | 0.496 | 20 | |
| *Surrogate: n-Nonane* | *45.4* | | *50.0* | | *90.9* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 10:40:04AM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2518107-BLK1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2518107-BS1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | 255 | 20.0 | 250 | | 102 | 90-110 | | | |
| **Matrix Spike (2518107-MS1)** | | | | **Source: E505007-01** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | 309 | 20.0 | 250 | 74.1 | 94.1 | 80-120 | | | |
| **Matrix Spike Dup (2518107-MSD1)** | | | | **Source: E505007-01** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | 331 | 20.0 | 250 | 74.1 | 103 | 80-120 | 6.76 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/07/25 10:40 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505009 | Job Number 23C03-0002 | 1D 2D 3D Std: x | NM: x CO UT TX |
| Project Name: Marbob State 001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCLP 1005 - TX | RCRA 8 Metals | | 8GDOC - NM | 8GDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:21 | 4/30/2025 | S | 1 | SS05 - 0' | | 1 | | | | | | | | | x | | | 3.9 | |
| 9:26 | 4/30/2025 | S | 1 | SS05 - 1' | | 2 | | | | | | | | | x | | | 3.7 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

EPA Program: SDWA | CWA | RCRA
Compliance: Y or N
PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Oluwale Aderinto

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Oluwale Aderinto | 5/1/25 | 08:15 | Michelle Gonzales | 5-1-25 | 0815 |
| Michelle Gonzales | 5-1-25 | 1630 | [signature] | 5.1.25 | 1630 |
| [signature] | 5.1.25 | 2315 | Caitlin Mo | 5.2.25 | 700 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only
Received on ice: Y / N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 5/2/2025 8:51:27AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/02/25 07:00 | Work Order ID: | E505009 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/01/25 15:26 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/08/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

***Practical Solutions for a Better Tomorrow***

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505010 |
| Job Number: | 23003-0002 |
| Received: | 5/2/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/7/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505010
Date Received: 5/2/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/2/2025 7:00:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

**Michelle Gonzales**
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/07/25 14:03 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS03-0' | E505010-01A | Soil | 04/30/25 | 05/02/25 | Glass Jar, 2 oz. |
| SS03-1' | E505010-02A | Soil | 04/30/25 | 05/02/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 2:03:08PM |

**SS03-0'**

**E505010-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Benzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Toluene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/02/25 | 05/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *84.7 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.5 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519002 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *94.7 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2518107 |
| Chloride | **383** | 20.0 | 1 | 05/02/25 | 05/02/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 2:03:08PM |

**SS03-1'**

**E505010-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Benzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| Toluene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/02/25 | 05/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *84.6 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2518103 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/02/25 | 05/02/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.5 %* | *70-130* | *05/02/25* | *05/02/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519002 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *94.5 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2518107 |
| Chloride | **328** | 20.0 | 1 | 05/02/25 | 05/02/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 2:03:08PM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2518103-BLK1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.73* | | *8.00* | | *84.1* | *70-130* | | | |
| **LCS (2518103-BS1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | 4.79 | 0.0250 | 5.00 | | 95.8 | 70-130 | | | |
| Ethylbenzene | 5.39 | 0.0250 | 5.00 | | 108 | 70-130 | | | |
| Toluene | 5.22 | 0.0250 | 5.00 | | 104 | 70-130 | | | |
| o-Xylene | 5.37 | 0.0250 | 5.00 | | 107 | 70-130 | | | |
| p,m-Xylene | 10.9 | 0.0500 | 10.0 | | 109 | 70-130 | | | |
| Total Xylenes | 16.3 | 0.0250 | 15.0 | | 108 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.84* | | *8.00* | | *85.4* | *70-130* | | | |
| **Matrix Spike (2518103-MS1)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | 4.64 | 0.0250 | 5.00 | ND | 92.8 | 70-130 | | | |
| Ethylbenzene | 5.18 | 0.0250 | 5.00 | ND | 104 | 70-130 | | | |
| Toluene | 5.02 | 0.0250 | 5.00 | ND | 100 | 70-130 | | | |
| o-Xylene | 5.16 | 0.0250 | 5.00 | ND | 103 | 70-130 | | | |
| p,m-Xylene | 10.5 | 0.0500 | 10.0 | ND | 105 | 70-130 | | | |
| Total Xylenes | 15.7 | 0.0250 | 15.0 | ND | 104 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.88* | | *8.00* | | *86.1* | *70-130* | | | |
| **Matrix Spike Dup (2518103-MSD1)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Benzene | 4.65 | 0.0250 | 5.00 | ND | 92.9 | 70-130 | 0.170 | 27 | |
| Ethylbenzene | 5.19 | 0.0250 | 5.00 | ND | 104 | 70-130 | 0.0858 | 26 | |
| Toluene | 5.02 | 0.0250 | 5.00 | ND | 100 | 70-130 | 0.124 | 20 | |
| o-Xylene | 5.17 | 0.0250 | 5.00 | ND | 103 | 70-130 | 0.250 | 25 | |
| p,m-Xylene | 10.5 | 0.0500 | 10.0 | ND | 105 | 70-130 | 0.252 | 23 | |
| Total Xylenes | 15.7 | 0.0250 | 15.0 | ND | 104 | 70-130 | 0.00 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.72* | | *8.00* | | *84.0* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 2:03:08PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2518103-BLK1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.53* | | *8.00* | | *94.2* | *70-130* | | | |
| **LCS (2518103-BS2)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | 44.9 | 20.0 | 50.0 | | 89.8 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.59* | | *8.00* | | *94.9* | *70-130* | | | |
| **Matrix Spike (2518103-MS2)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | 44.9 | 20.0 | 50.0 | ND | 89.8 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.62* | | *8.00* | | *95.2* | *70-130* | | | |
| **Matrix Spike Dup (2518103-MSD2)** | | | | **Source: E505007-02** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Gasoline Range Organics (C6-C10) | 49.1 | 20.0 | 50.0 | ND | 98.3 | 70-130 | 9.00 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.78* | | *8.00* | | *97.2* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 2:03:08PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519002-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.2* | *61-141* | | | |
| **LCS (2519002-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 255 | 25.0 | 250 | | 102 | 66-144 | | | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.1* | *61-141* | | | |
| **Matrix Spike (2519002-MS1)** | | | | **Source: E505020-05** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 347 | 25.0 | 250 | 39.7 | 123 | 56-156 | | | |
| *Surrogate: n-Nonane* | *56.4* | | *50.0* | | *113* | *61-141* | | | |
| **Matrix Spike Dup (2519002-MSD1)** | | | | **Source: E505020-05** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 340 | 25.0 | 250 | 39.7 | 120 | 56-156 | 1.99 | 20 | |
| *Surrogate: n-Nonane* | *54.4* | | *50.0* | | *109* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/7/2025 2:03:08PM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2518107-BLK1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2518107-BS1)** | | | | | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | 255 | 20.0 | 250 | | 102 | 90-110 | | | |
| **Matrix Spike (2518107-MS1)** | | | | **Source: E505007-01** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | 309 | 20.0 | 250 | 74.1 | 94.1 | 80-120 | | | |
| **Matrix Spike Dup (2518107-MSD1)** | | | | **Source: E505007-01** | | | | | Prepared: 05/02/25 Analyzed: 05/02/25 |
| Chloride | 331 | 20.0 | 250 | 74.1 | 103 | 80-120 | 6.76 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/07/25 14:03 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505010 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State 001 SWD | Address: 3122 National Parks Hwy | Job Number 23003.0002 | x | x |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:19 | 4/30/2025 | S | 1 | SS03 - 0' | | 1 | | | | | | | | | X | | | 2.5 | |
| 11:23 | 4/30/2025 | S | 1 | SS03 - 1' | | 2 | | | | | | | | | X | | | 2.0 | |
| | | | | | | | | | | | | | | | | | | | |
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**Analysis and Method**

**EPA Program**

SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Oluwale Aderinto

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Oluwale Aderinto | 05/01/25 | 08:15 | Michelle Gonzales | 5-1-25 | 0815 |
| Michelle Gonzales | 5-1-25 | 1630 | | 5.1.25 | 1630 |
| | 5.1.25 | 2315 | Caitlin Mar | 5.2.25 | 700 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 5/2/2025 8:53:18AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/02/25 07:00 | Work Order ID: | E505010 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/01/25 15:28 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/08/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505021 |
| Job Number: | 23003-0002 |
| Received: | 5/5/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/8/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/8/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505021
Date Received: 5/5/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
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ljarboe@envirotech-inc.com

**Michelle Gonzales**
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/08/25 08:38 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| BH01-0' | E505021-01A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |
| BH01-1' | E505021-02A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |
| BH01-1.5' | E505021-03A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:38:59AM |

**BH01-0'**

**E505021-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519008 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/05/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *88.4 %* | *70-130* | *05/05/25* | *05/05/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.4 %* | *70-130* | *05/05/25* | *05/05/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | **119** | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | **72.7** | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *93.4 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2519014 |
| Chloride | **18300** | 200 | 10 | 05/05/25 | 05/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:38:59AM |

**BH01-1'**

**E505021-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519008 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/05/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.7 %* | *70-130* | *05/05/25* | *05/05/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.9 %* | *70-130* | *05/05/25* | *05/05/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *97.9 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2519014 |
| Chloride | **3500** | 100 | 5 | 05/05/25 | 05/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:38:59AM |

**BH01-1.5'**

**E505021-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519008 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/05/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *90.1 %* | *70-130* | *05/05/25* | *05/05/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.7 %* | *70-130* | *05/05/25* | *05/05/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *97.5 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2519014 |
| Chloride | **2540** | 40.0 | 2 | 05/05/25 | 05/05/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:38:59AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519008-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.90* | | *8.00* | | *86.3* | *70-130* | | | |
| **LCS (2519008-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Benzene | 5.19 | 0.0250 | 5.00 | | 104 | 70-130 | | | |
| Ethylbenzene | 5.15 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| Toluene | 5.19 | 0.0250 | 5.00 | | 104 | 70-130 | | | |
| o-Xylene | 5.11 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| p,m-Xylene | 10.4 | 0.0500 | 10.0 | | 104 | 70-130 | | | |
| Total Xylenes | 15.5 | 0.0250 | 15.0 | | 104 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.21* | | *8.00* | | *90.1* | *70-130* | | | |
| **Matrix Spike (2519008-MS1)** | | | | **Source: E505019-04** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Benzene | 5.36 | 0.0250 | 5.00 | ND | 107 | 70-130 | | | |
| Ethylbenzene | 5.32 | 0.0250 | 5.00 | ND | 106 | 70-130 | | | |
| Toluene | 5.35 | 0.0250 | 5.00 | ND | 107 | 70-130 | | | |
| o-Xylene | 5.25 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| p,m-Xylene | 10.8 | 0.0500 | 10.0 | ND | 108 | 70-130 | | | |
| Total Xylenes | 16.0 | 0.0250 | 15.0 | ND | 107 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.94* | | *8.00* | | *86.7* | *70-130* | | | |
| **Matrix Spike Dup (2519008-MSD1)** | | | | **Source: E505019-04** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Benzene | 5.28 | 0.0250 | 5.00 | ND | 106 | 70-130 | 1.55 | 27 | |
| Ethylbenzene | 5.23 | 0.0250 | 5.00 | ND | 105 | 70-130 | 1.79 | 26 | |
| Toluene | 5.26 | 0.0250 | 5.00 | ND | 105 | 70-130 | 1.66 | 20 | |
| o-Xylene | 5.17 | 0.0250 | 5.00 | ND | 103 | 70-130 | 1.72 | 25 | |
| p,m-Xylene | 10.6 | 0.0500 | 10.0 | ND | 106 | 70-130 | 1.72 | 23 | |
| Total Xylenes | 15.7 | 0.0250 | 15.0 | ND | 105 | 70-130 | 1.72 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.75* | | *8.00* | | *84.4* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:38:59AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519008-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.43* | | *8.00* | | *92.8* | *70-130* | | | |
| **LCS (2519008-BS2)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Gasoline Range Organics (C6-C10) | 44.6 | 20.0 | 50.0 | | 89.1 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.75* | | *8.00* | | *96.8* | *70-130* | | | |
| **Matrix Spike (2519008-MS2)** | | | | **Source: E505019-04** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Gasoline Range Organics (C6-C10) | 44.1 | 20.0 | 50.0 | ND | 88.2 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.79* | | *8.00* | | *97.3* | *70-130* | | | |
| **Matrix Spike Dup (2519008-MSD2)** | | | | **Source: E505019-04** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Gasoline Range Organics (C6-C10) | 44.6 | 20.0 | 50.0 | ND | 89.2 | 70-130 | 1.14 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.89* | | *8.00* | | *98.6* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:38:59AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519004-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *47.1* | | *50.0* | | *94.1* | *61-141* | | | |
| **LCS (2519004-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 251 | 25.0 | 250 | | 100 | 66-144 | | | |
| *Surrogate: n-Nonane* | *46.4* | | *50.0* | | *92.9* | *61-141* | | | |
| **Matrix Spike (2519004-MS1)** | | | | **Source: E505022-02** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 262 | 25.0 | 250 | ND | 105 | 56-156 | | | |
| *Surrogate: n-Nonane* | *48.0* | | *50.0* | | *95.9* | *61-141* | | | |
| **Matrix Spike Dup (2519004-MSD1)** | | | | **Source: E505022-02** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 263 | 25.0 | 250 | ND | 105 | 56-156 | 0.409 | 20 | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.1* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:38:59AM |

## Anions by EPA 300.0/9056A

Analyst: JM

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519014-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2519014-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 252 | 20.0 | 250 | | 101 | 90-110 | | | |
| **Matrix Spike (2519014-MS1)** | | | | **Source: E505017-01** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 301 | 20.0 | 250 | 40.5 | 104 | 80-120 | | | |
| **Matrix Spike Dup (2519014-MSD1)** | | | | **Source: E505017-01** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 298 | 20.0 | 250 | 40.5 | 103 | 80-120 | 1.21 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/08/25 08:38 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM

Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E5052021 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State 001 SWD | Address: 3122 National Parks Hwy | Job Number 23C08002 | x | x |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13:41 | 5/1/2025 | S | 1 | BH01 - 0' | | 1 | | | | | | | | | x | | | 36 | |
| 13:50 | 5/1/2025 | S | 1 | BH01 - 1' | | 2 | | | | | | | | | x | | | 34 | |
| 14:08 | 5/1/2025 | S | 1 | BH01 - 1.5' | | 3 | | | | | | | | | X | | | 2.8 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Oluwale Aderinto

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | | | Michelle Gonzales | 5.2.25 | 0711 |
| Michelle Gonzales | 5.2.25 | 1745 | | 5.2.25 | 1745 |
| | 5.2.25 | 2345 | | 5.5.25 | 754 |
| | | | | | |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 5/5/2025 9:20:58AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/05/25 07:45 | Work Order ID: | E505021 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/02/25 15:28 | Logged In By: | Noe Soto |
| Email: | agiovengo@ensolum.com | Due Date: | 05/09/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505022 |
| Job Number: | 23003-0002 |
| Received: | 5/5/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/8/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/8/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505022
Date Received: 5/5/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

**Michelle Gonzales**
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/08/25 08:42 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS01-0' | E505022-01A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |
| SS01-1' | E505022-02A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |
| SS02-0' | E505022-03A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:42:43AM |

**SS01-0'**

**E505022-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *97.7 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *95.5 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2519007 |
| Chloride | **131** | 20.0 | 1 | 05/05/25 | 05/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:42:43AM |

**SS01-1'**

**E505022-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *90.4 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *95.0 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2519007 |
| Chloride | **26.8** | 20.0 | 1 | 05/05/25 | 05/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:42:43AM |

**SS02-0'**

**E505022-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *97.9 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *93.7 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2519007 |
| Chloride | **45.4** | 20.0 | 1 | 05/05/25 | 05/05/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:42:43AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519012-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.21* | | *8.00* | | *103* | *70-130* | | | |
| **LCS (2519012-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | 4.34 | 0.0250 | 5.00 | | 86.9 | 70-130 | | | |
| Ethylbenzene | 4.26 | 0.0250 | 5.00 | | 85.2 | 70-130 | | | |
| Toluene | 4.33 | 0.0250 | 5.00 | | 86.6 | 70-130 | | | |
| o-Xylene | 4.30 | 0.0250 | 5.00 | | 86.0 | 70-130 | | | |
| p,m-Xylene | 8.52 | 0.0500 | 10.0 | | 85.2 | 70-130 | | | |
| Total Xylenes | 12.8 | 0.0250 | 15.0 | | 85.5 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.14* | | *8.00* | | *102* | *70-130* | | | |
| **Matrix Spike (2519012-MS1)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | 3.84 | 0.0250 | 5.00 | ND | 76.8 | 70-130 | | | |
| Ethylbenzene | 3.83 | 0.0250 | 5.00 | ND | 76.7 | 70-130 | | | |
| Toluene | 3.87 | 0.0250 | 5.00 | ND | 77.3 | 70-130 | | | |
| o-Xylene | 3.88 | 0.0250 | 5.00 | ND | 77.6 | 70-130 | | | |
| p,m-Xylene | 7.71 | 0.0500 | 10.0 | ND | 77.1 | 70-130 | | | |
| Total Xylenes | 11.6 | 0.0250 | 15.0 | ND | 77.3 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.87* | | *8.00* | | *98.3* | *70-130* | | | |
| **Matrix Spike Dup (2519012-MSD1)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | 4.20 | 0.0250 | 5.00 | ND | 83.9 | 70-130 | 8.92 | 27 | |
| Ethylbenzene | 4.17 | 0.0250 | 5.00 | ND | 83.4 | 70-130 | 8.36 | 26 | |
| Toluene | 4.21 | 0.0250 | 5.00 | ND | 84.1 | 70-130 | 8.45 | 20 | |
| o-Xylene | 4.19 | 0.0250 | 5.00 | ND | 83.8 | 70-130 | 7.63 | 25 | |
| p,m-Xylene | 8.36 | 0.0500 | 10.0 | ND | 83.6 | 70-130 | 8.14 | 23 | |
| Total Xylenes | 12.6 | 0.0250 | 15.0 | ND | 83.7 | 70-130 | 7.97 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.14* | | *8.00* | | *102* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:42:43AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519012-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.70* | | *8.00* | | *96.2* | *70-130* | | | |
| **LCS (2519012-BS2)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | 48.7 | 20.0 | 50.0 | | 97.5 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.75* | | *8.00* | | *96.8* | *70-130* | | | |
| **Matrix Spike (2519012-MS2)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | 49.0 | 20.0 | 50.0 | ND | 98.0 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.11* | | *8.00* | | *101* | *70-130* | | | |
| **Matrix Spike Dup (2519012-MSD2)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | 49.5 | 20.0 | 50.0 | ND | 98.9 | 70-130 | 0.891 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.94* | | *8.00* | | *99.3* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:42:43AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519004-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *47.1* | | *50.0* | | *94.1* | *61-141* | | | |
| **LCS (2519004-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 251 | 25.0 | 250 | | 100 | 66-144 | | | |
| *Surrogate: n-Nonane* | *46.4* | | *50.0* | | *92.9* | *61-141* | | | |
| **Matrix Spike (2519004-MS1)** | | | | **Source: E505022-02** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 262 | 25.0 | 250 | ND | 105 | 56-156 | | | |
| *Surrogate: n-Nonane* | *48.0* | | *50.0* | | *95.9* | *61-141* | | | |
| **Matrix Spike Dup (2519004-MSD1)** | | | | **Source: E505022-02** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 263 | 25.0 | 250 | ND | 105 | 56-156 | 0.409 | 20 | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.1* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:42:43AM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519007-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2519007-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 252 | 20.0 | 250 | | 101 | 90-110 | | | |
| **Matrix Spike (2519007-MS1)** | | | | **Source: E505019-04** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 580 | 20.0 | 250 | 327 | 101 | 80-120 | | | |
| **Matrix Spike Dup (2519007-MSD1)** | | | | **Source: E505019-04** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 579 | 20.0 | 250 | 327 | 101 | 80-120 | 0.123 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/08/25 08:42 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM

Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505022 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State 001 SWD | Address: 3122 National Parks Hwy | Job Number 23013-0052 | x | x |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:51 | 5/1/2025 | S | 1 | SS01 - 0' | | 1 | | | | | | | | | x | | | 3.4 | |
| 9:54 | 5/1/2025 | S | 1 | SS01 - 1' | | 2 | | | | | | | | | x | | | 3.6 | |
| 9:41 | 5/1/2025 | S | 1 | SS02 - 0' | | 3 | | | | | | | | | x | | | 3.2 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Oluwale Aderinto

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Oluwale Aderinto | 5/2/25 | 08:15 | Michelle Gonzales | 5-2-25 | 0815 |
| Michelle Gonzales | 5.2.25 | 1745 | | 5.2.25 | 1745 |
| | 5.2.25 | 2345 | | 5.5.25 | 945 |
| | | | | | |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 5/5/2025 9:22:08AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/05/25 07:45 | Work Order ID: | E505022 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/02/25 15:34 | Logged In By: | Noe Soto |
| Email: | agiovengo@ensolum.com | Due Date: | 05/09/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505023 |
| Job Number: | 23003-0002 |
| Received: | 5/5/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/8/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/8/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505023
Date Received: 5/5/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/08/25 08:45 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS04-0' | E505023-01A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |
| SS04-1' | E505023-02A | Soil | 05/01/25 | 05/05/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:45:24AM |

**SS04-0'**

**E505023-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.1 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/05/25 | |
| *Surrogate: n-Nonane* | | *94.0 %* | *61-141* | *05/05/25* | *05/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2519014 |
| Chloride | **98.4** | 20.0 | 1 | 05/05/25 | 05/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:45:24AM |

**SS04-1'**

**E505023-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Benzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| Toluene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/05/25 | 05/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2519012 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.4 %* | *70-130* | *05/05/25* | *05/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2519004 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/05/25 | 05/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/05/25 | 05/06/25 | |
| *Surrogate: n-Nonane* | | *94.1 %* | *61-141* | *05/05/25* | *05/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2519014 |
| Chloride | **50.0** | 20.0 | 1 | 05/05/25 | 05/05/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:45:24AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519012-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.21* | | *8.00* | | *103* | *70-130* | | | |
| **LCS (2519012-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | 4.34 | 0.0250 | 5.00 | | 86.9 | 70-130 | | | |
| Ethylbenzene | 4.26 | 0.0250 | 5.00 | | 85.2 | 70-130 | | | |
| Toluene | 4.33 | 0.0250 | 5.00 | | 86.6 | 70-130 | | | |
| o-Xylene | 4.30 | 0.0250 | 5.00 | | 86.0 | 70-130 | | | |
| p,m-Xylene | 8.52 | 0.0500 | 10.0 | | 85.2 | 70-130 | | | |
| Total Xylenes | 12.8 | 0.0250 | 15.0 | | 85.5 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.14* | | *8.00* | | *102* | *70-130* | | | |
| **Matrix Spike (2519012-MS1)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | 3.84 | 0.0250 | 5.00 | ND | 76.8 | 70-130 | | | |
| Ethylbenzene | 3.83 | 0.0250 | 5.00 | ND | 76.7 | 70-130 | | | |
| Toluene | 3.87 | 0.0250 | 5.00 | ND | 77.3 | 70-130 | | | |
| o-Xylene | 3.88 | 0.0250 | 5.00 | ND | 77.6 | 70-130 | | | |
| p,m-Xylene | 7.71 | 0.0500 | 10.0 | ND | 77.1 | 70-130 | | | |
| Total Xylenes | 11.6 | 0.0250 | 15.0 | ND | 77.3 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.87* | | *8.00* | | *98.3* | *70-130* | | | |
| **Matrix Spike Dup (2519012-MSD1)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Benzene | 4.20 | 0.0250 | 5.00 | ND | 83.9 | 70-130 | 8.92 | 27 | |
| Ethylbenzene | 4.17 | 0.0250 | 5.00 | ND | 83.4 | 70-130 | 8.36 | 26 | |
| Toluene | 4.21 | 0.0250 | 5.00 | ND | 84.1 | 70-130 | 8.45 | 20 | |
| o-Xylene | 4.19 | 0.0250 | 5.00 | ND | 83.8 | 70-130 | 7.63 | 25 | |
| p,m-Xylene | 8.36 | 0.0500 | 10.0 | ND | 83.6 | 70-130 | 8.14 | 23 | |
| Total Xylenes | 12.6 | 0.0250 | 15.0 | ND | 83.7 | 70-130 | 7.97 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.14* | | *8.00* | | *102* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:45:24AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519012-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.70* | | *8.00* | | *96.2* | *70-130* | | | |
| **LCS (2519012-BS2)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | 48.7 | 20.0 | 50.0 | | 97.5 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.75* | | *8.00* | | *96.8* | *70-130* | | | |
| **Matrix Spike (2519012-MS2)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | 49.0 | 20.0 | 50.0 | ND | 98.0 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.11* | | *8.00* | | *101* | *70-130* | | | |
| **Matrix Spike Dup (2519012-MSD2)** | | | | **Source: E505023-02** | | | | | Prepared: 05/05/25 Analyzed: 05/06/25 |
| Gasoline Range Organics (C6-C10) | 49.5 | 20.0 | 50.0 | ND | 98.9 | 70-130 | 0.891 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.94* | | *8.00* | | *99.3* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:45:24AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519004-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *47.1* | | *50.0* | | *94.1* | *61-141* | | | |
| **LCS (2519004-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 251 | 25.0 | 250 | | 100 | 66-144 | | | |
| *Surrogate: n-Nonane* | *46.4* | | *50.0* | | *92.9* | *61-141* | | | |
| **Matrix Spike (2519004-MS1)** | | | | **Source: E505022-02** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 262 | 25.0 | 250 | ND | 105 | 56-156 | | | |
| *Surrogate: n-Nonane* | *48.0* | | *50.0* | | *95.9* | *61-141* | | | |
| **Matrix Spike Dup (2519004-MSD1)** | | | | **Source: E505022-02** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Diesel Range Organics (C10-C28) | 263 | 25.0 | 250 | ND | 105 | 56-156 | 0.409 | 20 | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.1* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/8/2025 8:45:24AM |

## Anions by EPA 300.0/9056A

Analyst: JM

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2519014-BLK1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2519014-BS1)** | | | | | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 252 | 20.0 | 250 | | 101 | 90-110 | | | |
| **Matrix Spike (2519014-MS1)** | | | | **Source: E505017-01** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 301 | 20.0 | 250 | 40.5 | 104 | 80-120 | | | |
| **Matrix Spike Dup (2519014-MSD1)** | | | | **Source: E505017-01** | | | | | Prepared: 05/05/25 Analyzed: 05/05/25 |
| Chloride | 298 | 20.0 | 250 | 40.5 | 103 | 80-120 | 1.21 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/08/25 08:45 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM

Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505023 | Job Number 23103.0002 | 1D 2D 3D Std: x | NM CO UT TX: x |
| Project Name: Marbob State 001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:28 | 5/1/2025 | S | 1 | SS04 - 0' | | 1 | | | | | | | | | X | | | 3.6 | |
| 12:33 | 5/1/2025 | S | 1 | SS04 - 1' | | 2 | | | | | | | | | X | | | 3.4 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

**Analysis and Method**

**EPA Program**: SDWA | CWA | RCRA

Compliance: Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Oluwale Aderinto

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Oluwale Aderinto | 5/2/25 | 08:15 | Michelle Gonzales | 5.2.25 | 0816 |
| Michelle Gonzales | 5.2.25 | 1745 | [illegible] | 5.2.25 | 1745 |
| [illegible] | 5.2.25 | 2345 | Caitlin Mason | 5.5.25 | 745 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 5/5/2025 9:23:19AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/05/25 07:45 | Work Order ID: | E505023 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/02/25 15:38 | Logged In By: | Noe Soto |
| Email: | agiovengo@ensolum.com | Due Date: | 05/09/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505175 |
| Job Number: | 23003-0002 |
| Received: | 5/16/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/22/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/22/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505175
Date Received: 5/16/2025 8:30:22AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
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Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/22/25 07:56 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| BH02-2' | E505175-01A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH02-4' | E505175-02A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH02-6' | E505175-03A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH02-8' | E505175-04A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH02-10' | E505175-05A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

**BH02-2'**

**E505175-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *88.7 %* | *70-130* | *05/16/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.2 %* | *70-130* | *05/16/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *108 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520137 |
| Chloride | **1460** | 20.0 | 1 | 05/16/25 | 05/17/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

**BH02-4'**

**E505175-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *84.6 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.1 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520137 |
| Chloride | **1790** | 20.0 | 1 | 05/16/25 | 05/17/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

**BH02-6'**

**E505175-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *85.6 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.5 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *107 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520137 |
| Chloride | **1710** | 20.0 | 1 | 05/16/25 | 05/17/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

**BH02-8'**

**E505175-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *87.4 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.7 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *116 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520137 |
| Chloride | **1260** | 20.0 | 1 | 05/16/25 | 05/17/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

**BH02-10'**

**E505175-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *88.4 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.7 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520137 |
| Chloride | **241** | 20.0 | 1 | 05/16/25 | 05/17/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520111-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.72* | | *8.00* | | *84.0* | *70-130* | | | |
| **LCS (2520111-BS1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/19/25 |
| Benzene | 5.01 | 0.0250 | 5.00 | | 100 | 70-130 | | | |
| Ethylbenzene | 5.01 | 0.0250 | 5.00 | | 100 | 70-130 | | | |
| Toluene | 5.02 | 0.0250 | 5.00 | | 100 | 70-130 | | | |
| o-Xylene | 4.92 | 0.0250 | 5.00 | | 98.3 | 70-130 | | | |
| p,m-Xylene | 10.1 | 0.0500 | 10.0 | | 101 | 70-130 | | | |
| Total Xylenes | 15.0 | 0.0250 | 15.0 | | 99.9 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.91* | | *8.00* | | *86.4* | *70-130* | | | |
| **Matrix Spike (2520111-MS1)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Benzene | 5.03 | 0.0250 | 5.00 | ND | 101 | 70-130 | | | |
| Ethylbenzene | 4.93 | 0.0250 | 5.00 | ND | 98.6 | 70-130 | | | |
| Toluene | 5.00 | 0.0250 | 5.00 | ND | 100 | 70-130 | | | |
| o-Xylene | 4.86 | 0.0250 | 5.00 | ND | 97.2 | 70-130 | | | |
| p,m-Xylene | 9.97 | 0.0500 | 10.0 | ND | 99.7 | 70-130 | | | |
| Total Xylenes | 14.8 | 0.0250 | 15.0 | ND | 98.9 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.75* | | *8.00* | | *84.4* | *70-130* | | | |
| **Matrix Spike Dup (2520111-MSD1)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Benzene | 5.42 | 0.0250 | 5.00 | ND | 108 | 70-130 | 7.46 | 27 | |
| Ethylbenzene | 5.33 | 0.0250 | 5.00 | ND | 107 | 70-130 | 7.83 | 26 | |
| Toluene | 5.39 | 0.0250 | 5.00 | ND | 108 | 70-130 | 7.49 | 20 | |
| o-Xylene | 5.23 | 0.0250 | 5.00 | ND | 105 | 70-130 | 7.28 | 25 | |
| p,m-Xylene | 10.8 | 0.0500 | 10.0 | ND | 108 | 70-130 | 7.53 | 23 | |
| Total Xylenes | 16.0 | 0.0250 | 15.0 | ND | 107 | 70-130 | 7.45 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.73* | | *8.00* | | *84.2* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520111-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.71* | | *8.00* | | *96.3* | *70-130* | | | |
| **LCS (2520111-BS2)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Gasoline Range Organics (C6-C10) | 41.8 | 20.0 | 50.0 | | 83.7 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.79* | | *8.00* | | *97.4* | *70-130* | | | |
| **Matrix Spike (2520111-MS2)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Gasoline Range Organics (C6-C10) | 45.9 | 20.0 | 50.0 | ND | 91.9 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.74* | | *8.00* | | *96.8* | *70-130* | | | |
| **Matrix Spike Dup (2520111-MSD2)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/20/25 |
| Gasoline Range Organics (C6-C10) | 44.6 | 20.0 | 50.0 | ND | 89.2 | 70-130 | 2.94 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.79* | | *8.00* | | *97.4* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520134-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *50.7* | | *50.0* | | *101* | *61-141* | | | |
| **LCS (2520134-BS1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | 260 | 25.0 | 250 | | 104 | 66-144 | | | |
| *Surrogate: n-Nonane* | *50.2* | | *50.0* | | *100* | *61-141* | | | |
| **Matrix Spike (2520134-MS1)** | | | | **Source: E505118-02RE1** | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | 297 | 25.0 | 250 | ND | 119 | 56-156 | | | |
| *Surrogate: n-Nonane* | *54.7* | | *50.0* | | *109* | *61-141* | | | |
| **Matrix Spike Dup (2520134-MSD1)** | | | | **Source: E505118-02RE1** | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | 290 | 25.0 | 250 | ND | 116 | 56-156 | 2.31 | 20 | |
| *Surrogate: n-Nonane* | *51.1* | | *50.0* | | *102* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 7:56:40AM |

## Anions by EPA 300.0/9056A

Analyst: RAS

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520137-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2520137-BS1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Chloride | 261 | 20.0 | 250 | | 105 | 90-110 | | | |
| **Matrix Spike (2520137-MS1)** | | | | **Source: E505169-06** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Chloride | 352 | 20.0 | 250 | 74.4 | 111 | 80-120 | | | |
| **Matrix Spike Dup (2520137-MSD1)** | | | | **Source: E505169-06** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Chloride | 343 | 20.0 | 250 | 74.4 | 107 | 80-120 | 2.65 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/22/25 07:56 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505175 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23C03-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:46 | 5/14/2025 | S | 1 | BH02-2' | | 1 | | | | | | X | | | | | | 2.0 |
| 15:11 | 5/14/2025 | S | 1 | BH02-4' | | 2 | | | | | | X | | | | | | 2.8 |
| 15:20 | 5/14/2025 | S | 1 | BH02-6' | | 3 | | | | | | X | | | | | | 1.8 |
| 15:29 | 5/14/2025 | S | 1 | BH02-8' | | 4 | | | | | | X | | | | | | 2.0 |
| 16:04 | 5/14/2025 | S | 1 | BH02-10' | | 5 | | | | | | X | | | | | | 1.8 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/15/25 | 7:11 | Michelle Gonzales | 5.15.25 | 0711 |
| Michelle Gonzales | 5-15-25 | 1600 | | 5.15.25 | 1600 |
| | 5.15.25 | 2215 | Caitlin Mann | 5.16.25 | 830 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





envirotech

# Envirotech Analytical Laboratory

Printed: 5/16/2025 1:29:11PM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/16/25 08:30 | Work Order ID: | E505175 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/15/25 14:39 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/22/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505176 |
| Job Number: | 23003-0002 |
| Received: | 5/16/2025 |

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/22/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/22/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505176
Date Received: 5/16/2025 8:30:22AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
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ljarboe@envirotech-inc.com

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Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/22/25 10:36 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| BH01-0' | E505176-01A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-2' | E505176-02A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-4' | E505176-03A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-6' | E505176-04A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-8' | E505176-05A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-10' | E505176-06A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-12' | E505176-07A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-14' | E505176-08A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH01-15' | E505176-09A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |
| BH02-0' | E505176-10A | Soil | 05/14/25 | 05/16/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-0'**

**E505176-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *85.8 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.6 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *111 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **21300** | 400 | 20 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-2'**

**E505176-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *86.5 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *95.8 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **967** | 40.0 | 2 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-4'**

**E505176-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *87.8 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.7 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **3530** | 40.0 | 2 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-6'**

**E505176-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *88.3 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *97.0 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **4120** | 40.0 | 2 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-8'**

**E505176-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.2 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *95.8 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *109 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **3750** | 40.0 | 2 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-10'**

**E505176-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.0 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.3 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **2280** | 40.0 | 2 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-12'**

**E505176-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.6 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.0 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **823** | 20.0 | 1 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-14'**

**E505176-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *90.3 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *97.1 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *98.3 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **636** | 20.0 | 1 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH01-15'**

**E505176-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *90.7 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *95.5 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **104** | 20.0 | 1 | 05/16/25 | 05/18/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

**BH02-0'**

**E505176-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Benzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| Toluene | ND | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| o-Xylene | **0.285** | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/25 | 05/18/25 | |
| Total Xylenes | **0.285** | 0.0250 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *90.0 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2520111 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/25 | 05/18/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.8 %* | *70-130* | *05/16/25* | *05/18/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2520134 |
| Diesel Range Organics (C10-C28) | **156** | 25.0 | 1 | 05/16/25 | 05/17/25 | |
| Oil Range Organics (C28-C36) | **257** | 50.0 | 1 | 05/16/25 | 05/17/25 | |
| *Surrogate: n-Nonane* | | *98.9 %* | *61-141* | *05/16/25* | *05/17/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: RAS | | | Batch: 2520138 |
| Chloride | **1120** | 20.0 | 1 | 05/16/25 | 05/18/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520111-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.72* | | *8.00* | | *84.0* | *70-130* | | | |
| **LCS (2520111-BS1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/19/25 |
| Benzene | 5.01 | 0.0250 | 5.00 | | 100 | 70-130 | | | |
| Ethylbenzene | 5.01 | 0.0250 | 5.00 | | 100 | 70-130 | | | |
| Toluene | 5.02 | 0.0250 | 5.00 | | 100 | 70-130 | | | |
| o-Xylene | 4.92 | 0.0250 | 5.00 | | 98.3 | 70-130 | | | |
| p,m-Xylene | 10.1 | 0.0500 | 10.0 | | 101 | 70-130 | | | |
| Total Xylenes | 15.0 | 0.0250 | 15.0 | | 99.9 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.91* | | *8.00* | | *86.4* | *70-130* | | | |
| **Matrix Spike (2520111-MS1)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Benzene | 5.03 | 0.0250 | 5.00 | ND | 101 | 70-130 | | | |
| Ethylbenzene | 4.93 | 0.0250 | 5.00 | ND | 98.6 | 70-130 | | | |
| Toluene | 5.00 | 0.0250 | 5.00 | ND | 100 | 70-130 | | | |
| o-Xylene | 4.86 | 0.0250 | 5.00 | ND | 97.2 | 70-130 | | | |
| p,m-Xylene | 9.97 | 0.0500 | 10.0 | ND | 99.7 | 70-130 | | | |
| Total Xylenes | 14.8 | 0.0250 | 15.0 | ND | 98.9 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.75* | | *8.00* | | *84.4* | *70-130* | | | |
| **Matrix Spike Dup (2520111-MSD1)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Benzene | 5.42 | 0.0250 | 5.00 | ND | 108 | 70-130 | 7.46 | 27 | |
| Ethylbenzene | 5.33 | 0.0250 | 5.00 | ND | 107 | 70-130 | 7.83 | 26 | |
| Toluene | 5.39 | 0.0250 | 5.00 | ND | 108 | 70-130 | 7.49 | 20 | |
| o-Xylene | 5.23 | 0.0250 | 5.00 | ND | 105 | 70-130 | 7.28 | 25 | |
| p,m-Xylene | 10.8 | 0.0500 | 10.0 | ND | 108 | 70-130 | 7.53 | 23 | |
| Total Xylenes | 16.0 | 0.0250 | 15.0 | ND | 107 | 70-130 | 7.45 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *6.73* | | *8.00* | | *84.2* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520111-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.71* | | *8.00* | | *96.3* | *70-130* | | | |
| **LCS (2520111-BS2)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Gasoline Range Organics (C6-C10) | 41.8 | 20.0 | 50.0 | | 83.7 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.79* | | *8.00* | | *97.4* | *70-130* | | | |
| **Matrix Spike (2520111-MS2)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/17/25 |
| Gasoline Range Organics (C6-C10) | 45.9 | 20.0 | 50.0 | ND | 91.9 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.74* | | *8.00* | | *96.8* | *70-130* | | | |
| **Matrix Spike Dup (2520111-MSD2)** | | | | **Source: E505173-05** | | | | | Prepared: 05/16/25 Analyzed: 05/20/25 |
| Gasoline Range Organics (C6-C10) | 44.6 | 20.0 | 50.0 | ND | 89.2 | 70-130 | 2.94 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.79* | | *8.00* | | *97.4* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520134-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *50.7* | | *50.0* | | *101* | *61-141* | | | |
| **LCS (2520134-BS1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | 260 | 25.0 | 250 | | 104 | 66-144 | | | |
| *Surrogate: n-Nonane* | *50.2* | | *50.0* | | *100* | *61-141* | | | |
| **Matrix Spike (2520134-MS1)** | | | | **Source: E505118-02RE1** | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | 297 | 25.0 | 250 | ND | 119 | 56-156 | | | |
| *Surrogate: n-Nonane* | *54.7* | | *50.0* | | *109* | *61-141* | | | |
| **Matrix Spike Dup (2520134-MSD1)** | | | | **Source: E505118-02RE1** | | | | | Prepared: 05/16/25 Analyzed: 05/16/25 |
| Diesel Range Organics (C10-C28) | 290 | 25.0 | 250 | ND | 116 | 56-156 | 2.31 | 20 | |
| *Surrogate: n-Nonane* | *51.1* | | *50.0* | | *102* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/22/2025 10:36:58AM |

## Anions by EPA 300.0/9056A

Analyst: RAS

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2520138-BLK1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/18/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2520138-BS1)** | | | | | | | | | Prepared: 05/16/25 Analyzed: 05/18/25 |
| Chloride | 256 | 20.0 | 250 | | 102 | 90-110 | | | |
| **Matrix Spike (2520138-MS1)** | | | | **Source: E505176-05** | | | | | Prepared: 05/16/25 Analyzed: 05/18/25 |
| Chloride | 3850 | 40.0 | 250 | 3750 | 37.7 | 80-120 | | | M4 |
| **Matrix Spike Dup (2520138-MSD1)** | | | | **Source: E505176-05** | | | | | Prepared: 05/16/25 Analyzed: 05/18/25 |
| Chloride | 3800 | 40.0 | 250 | 3750 | 17.2 | 80-120 | 1.34 | 20 | M4 |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/22/25 10:36 |

| | |
|---|---|
| M4 | Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505176 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23003.0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

| Sample Information | | | | | | | Analysis and Method | | | | | | | | | | EPA Program | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | SDWA | CWA | RCRA |
| 10:03 | 5/14/2025 | S | 1 | BH01-0' | | 1 | | | | | | x | | | | | Compliance | Y | or N |
| 10:08 | 5/14/2025 | S | 1 | BH01-2' | | 2 | | | | | | x | | | | | PWSID # | | |
| 10:41 | 5/14/2025 | S | 1 | BH01-4' | | 3 | | | | | | x | | | | | Remarks | | |
| 10:46 | 5/14/2025 | S | 1 | BH01-6' | | 4 | | | | | | x | | | | | | | |
| 11:16 | 5/14/2025 | S | 1 | BH01-8' | | 5 | | | | | | x | | | | | | | |
| 11:40 | 5/14/2025 | S | 1 | BH01-10' | | 6 | | | | | | x | | | | | | | |
| 13:11 | 5/14/2025 | S | 1 | BH01-12 | | 7 | | | | | | x | | | | | | | |
| 13:46 | 5/14/2025 | S | 1 | BH01-14' | | 8 | | | | | | x | | | | | | | |
| 14:01 | 5/14/2025 | S | 1 | BH01-15' | | 9 | | | | | | x | | | | | | | |
| 14:24 | 5/14/2025 | S | 1 | BH02-0' | | 10 | | | | | | x | | | | | | | |

| Remarks |
|---|
| 1.1 |
| 2.4 |
| 1.4 |
| 1.8 |
| 1.1 |
| 1.7 |
| 2.3 |
| 1.9 |
| 2.0 |
| 1.4 |

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/15/ | 7:11 | Michelle Gonzales | 5-15-25 | 0711 |
| Michelle Gonzales | 5-15-25 | 1600 | | 5.15.25 | 1600 |
| | 5.15.25 | 2215 | Caitlin Mor | 5.16.25 | 830 |
| | Date | Time | | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





envirotech

# Envirotech Analytical Laboratory

Printed: 5/16/2025 1:31:53PM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/16/25 08:30 | Work Order ID: | E505176 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/15/25 14:42 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/22/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505199 |
| Job Number: | 23003-0002 |
| Received: | 5/19/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/23/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/23/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505199
Date Received: 5/19/2025 7:30:17AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:17AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/23/25 07:40 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| BH03-0' | E505199-01A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH03-2' | E505199-02A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH03-4' | E505199-03A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH03-6' | E505199-04A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH03-8' | E505199-05A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH03-10' | E505199-06A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH04-0' | E505199-07A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH04-1' | E505199-08A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH04-2' | E505199-09A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |
| BH04-3' | E505199-10A | Soil | 05/15/25 | 05/19/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH03-0'**

**E505199-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.2 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **814** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH03-2'**

**E505199-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *100 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *92.4 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *107 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **1210** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH03-4'**

**E505199-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.6 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *91.8 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *107 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **2420** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH03-6'**

**E505199-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.7 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *92.3 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *108 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **1650** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH03-8'**

**E505199-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *100 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *92.5 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *108 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **1320** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH03-10'**

**E505199-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *92.4 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **145** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH04-0'**

**E505199-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.7 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **1890** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH04-1'**

**E505199-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *92.9 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *106 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **798** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH04-2'**

**E505199-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.8 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *113 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **400** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

**BH04-3'**

**E505199-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Benzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| Toluene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/19/25 | 05/20/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521006 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/19/25 | 05/20/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *92.3 %* | *70-130* | *05/19/25* | *05/20/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2521028 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/19/25 | 05/21/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/19/25 | 05/21/25 | |
| *Surrogate: n-Nonane* | | *107 %* | *61-141* | *05/19/25* | *05/21/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: JM | | | Batch: 2521018 |
| Chloride | **246** | 20.0 | 1 | 05/19/25 | 05/19/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

## Volatile Organics by EPA 8021B

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521006-BLK1)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.07* | | *8.00* | | *101* | *70-130* | | | |
| **LCS (2521006-BS1)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Benzene | 5.32 | 0.0250 | 5.00 | | 106 | 70-130 | | | |
| Ethylbenzene | 5.44 | 0.0250 | 5.00 | | 109 | 70-130 | | | |
| Toluene | 5.43 | 0.0250 | 5.00 | | 109 | 70-130 | | | |
| o-Xylene | 5.36 | 0.0250 | 5.00 | | 107 | 70-130 | | | |
| p,m-Xylene | 11.0 | 0.0500 | 10.0 | | 110 | 70-130 | | | |
| Total Xylenes | 16.3 | 0.0250 | 15.0 | | 109 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.01* | | *8.00* | | *100* | *70-130* | | | |
| **Matrix Spike (2521006-MS1)** | | | | **Source: E505199-07** | | | | | Prepared: 05/19/25 Analyzed: 05/20/25 |
| Benzene | 5.24 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| Ethylbenzene | 5.33 | 0.0250 | 5.00 | ND | 107 | 70-130 | | | |
| Toluene | 5.33 | 0.0250 | 5.00 | ND | 107 | 70-130 | | | |
| o-Xylene | 5.25 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| p,m-Xylene | 10.7 | 0.0500 | 10.0 | ND | 107 | 70-130 | | | |
| Total Xylenes | 16.0 | 0.0250 | 15.0 | ND | 107 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.05* | | *8.00* | | *101* | *70-130* | | | |
| **Matrix Spike Dup (2521006-MSD1)** | | | | **Source: E505199-07** | | | | | Prepared: 05/19/25 Analyzed: 05/20/25 |
| Benzene | 5.31 | 0.0250 | 5.00 | ND | 106 | 70-130 | 1.19 | 27 | |
| Ethylbenzene | 5.44 | 0.0250 | 5.00 | ND | 109 | 70-130 | 1.92 | 26 | |
| Toluene | 5.42 | 0.0250 | 5.00 | ND | 108 | 70-130 | 1.63 | 20 | |
| o-Xylene | 5.36 | 0.0250 | 5.00 | ND | 107 | 70-130 | 2.00 | 25 | |
| p,m-Xylene | 11.0 | 0.0500 | 10.0 | ND | 110 | 70-130 | 2.03 | 23 | |
| Total Xylenes | 16.3 | 0.0250 | 15.0 | ND | 109 | 70-130 | 2.02 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.09* | | *8.00* | | *101* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521006-BLK1)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.48* | | *8.00* | | *93.5* | *70-130* | | | |
| **LCS (2521006-BS2)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Gasoline Range Organics (C6-C10) | 43.7 | 20.0 | 50.0 | | 87.3 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.65* | | *8.00* | | *95.6* | *70-130* | | | |
| **Matrix Spike (2521006-MS2)** | | | | **Source: E505199-07** | | | | | Prepared: 05/19/25 Analyzed: 05/20/25 |
| Gasoline Range Organics (C6-C10) | 40.1 | 20.0 | 50.0 | ND | 80.2 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.54* | | *8.00* | | *94.3* | *70-130* | | | |
| **Matrix Spike Dup (2521006-MSD2)** | | | | **Source: E505199-07** | | | | | Prepared: 05/19/25 Analyzed: 05/20/25 |
| Gasoline Range Organics (C6-C10) | 45.5 | 20.0 | 50.0 | ND | 90.9 | 70-130 | 12.6 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.64* | | *8.00* | | *95.5* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521028-BLK1)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/20/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *50.6* | | *50.0* | | *101* | *61-141* | | | |
| **LCS (2521028-BS1)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/21/25 |
| Diesel Range Organics (C10-C28) | 270 | 25.0 | 250 | | 108 | 66-144 | | | |
| *Surrogate: n-Nonane* | *51.7* | | *50.0* | | *103* | *61-141* | | | |
| **Matrix Spike (2521028-MS1)** | | | | **Source: E505197-04** | | | | | Prepared: 05/19/25 Analyzed: 05/21/25 |
| Diesel Range Organics (C10-C28) | 283 | 25.0 | 250 | ND | 113 | 56-156 | | | |
| *Surrogate: n-Nonane* | *52.4* | | *50.0* | | *105* | *61-141* | | | |
| **Matrix Spike Dup (2521028-MSD1)** | | | | **Source: E505197-04** | | | | | Prepared: 05/19/25 Analyzed: 05/21/25 |
| Diesel Range Organics (C10-C28) | 306 | 25.0 | 250 | ND | 122 | 56-156 | 7.70 | 20 | |
| *Surrogate: n-Nonane* | *52.0* | | *50.0* | | *104* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/23/2025 7:40:38AM |

## Anions by EPA 300.0/9056A

Analyst: JM

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521018-BLK1)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2521018-BS1)** | | | | | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Chloride | 252 | 20.0 | 250 | | 101 | 90-110 | | | |
| **Matrix Spike (2521018-MS1)** | | | | **Source: E505199-09** | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Chloride | 664 | 20.0 | 250 | 400 | 106 | 80-120 | | | |
| **Matrix Spike Dup (2521018-MSD1)** | | | | **Source: E505199-09** | | | | | Prepared: 05/19/25 Analyzed: 05/19/25 |
| Chloride | 693 | 20.0 | 250 | 400 | 117 | 80-120 | 4.19 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/23/25 07:40 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505199 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob Stae #001 SWD | Address: 3122 National Parks Hwy | Job Number 23W3-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:30 | 5/15/2025 | S | 1 | ~~BH3-0'~~ BH03-0' | | 1 | | | | | | X | | | 3.3 Corrected |
| 9:50 | 5/15/2025 | S | 1 | BH03-2' | | 2 | | | | | | X | | | 3.9 Sample #1 |
| 9:56 | 5/15/2025 | S | 1 | BH03-4' | | 3 | | | | | | X | | | 3.7 name per |
| 10:03 | 5/15/2025 | S | 1 | BH03-6' | | 4 | | | | | | X | | | 3.4 Client. |
| 10:11 | 5/15/2025 | S | 1 | BH03-8' | | 5 | | | | | | X | | | 3.6 CM 5/19/25 |
| 11:21 | 5/15/2025 | S | 1 | BH03-10' | | 6 | | | | | | X | | | 3.4 |
| 9:29 | 5/15/2025 | S | 1 | BH04-0' | | 7 | | | | | | X | | | 3.3 |
| 13:14 | 5/15/2025 | S | 1 | BH04-1' | | 8 | | | | | | X | | | 3.2 |
| 13:18 | 5/15/2025 | S | 1 | BH04-2' | | 9 | | | | | | X | | | 3.1 |
| 13:23 | 5/15/2025 | S | 1 | BH04-3' | | 10 | | | | | | X | | | 3.4 |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 5/16/25 | 7:11 | Michelle Gonzales | 5-16-25 | 0711 |
| Michelle Gonzales | 5-17-25 | 0230 | [signature] | 5.19.25 | 730 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505199 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob Stae #001 SWD | Address: 3122 National Parks Hwy | Job Number 23C03-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:30 | 5/15/2025 | S | 1 | BH3-0' | | 1 | | | | | | X | | | | | | 3.3 |
| 9:50 | 5/15/2025 | S | 1 | BH03-2' | | 2 | | | | | | X | | | | | | 3.9 |
| 9:56 | 5/15/2025 | S | 1 | BH03-4' | | 3 | | | | | | X | | | | | | 3.7 |
| 10:03 | 5/15/2025 | S | 1 | BH03-6' | | 4 | | | | | | X | | | | | | 3.4 |
| 10:11 | 5/15/2025 | S | 1 | BH03-8' | | 5 | | | | | | X | | | | | | 3.6 |
| 11:21 | 5/15/2025 | S | 1 | BH03-10' | | 6 | | | | | | X | | | | | | 3.4 |
| 9:29 | 5/15/2025 | S | 1 | BH04-0' | | 7 | | | | | | X | | | | | | 3.3 |
| 13:14 | 5/15/2025 | S | 1 | BH04-1' | | 8 | | | | | | X | | | | | | 3.2 |
| 13:18 | 5/15/2025 | S | 1 | BH04-2' | | 9 | | | | | | X | | | | | | 3.1 |
| 13:23 | 5/15/2025 | S | 1 | BH04-3' | | 10 | | | | | | X | | | | | | 3.4 |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/16/25 | 7:11 | Michelle Gonzales | 5-16-25 | 0711 |
| Michelle Gonzales | 5-17-25 | 0230 | Caitlin Mars | 5.19.25 | 730 |
| | | | | | |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





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# Envirotech Analytical Laboratory

Printed: 5/19/2025 10:17:32AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/19/25 07:30 | Work Order ID: | E505199 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/16/25 16:08 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/23/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | No | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

Sample 1 container did not match coc.
Corrected sample name on COC per client.

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505219 |
| Job Number: | 23003-0002 |
| Received: | 5/20/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/27/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/27/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505219
Date Received: 5/20/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/20/2025 7:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
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Cell: 505-320-4759
ljarboe@envirotech-inc.com

**Michelle Gonzales**
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/27/25 11:26 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| BH05-0' | E505219-01A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH05-1' | E505219-02A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH05-2' | E505219-03A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH06-0' | E505219-04A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH06-2' | E505219-05A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH06-4' | E505219-06A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH06-6' | E505219-07A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH06-8' | E505219-08A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH06-10' | E505219-09A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |
| BH06-11' | E505219-10A | Soil | 05/16/25 | 05/20/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH05-0'**

**E505219-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *86.7 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.4 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **333** | 20.0 | 1 | 05/21/25 | 05/22/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH05-1'**

**E505219-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *87.7 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *95.0 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *106 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **393** | 20.0 | 1 | 05/21/25 | 05/22/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH06-0'**

**E505219-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *87.5 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.1 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | **209** | 25.0 | 1 | 05/21/25 | 05/27/25 | |
| Oil Range Organics (C28-C36) | **163** | 50.0 | 1 | 05/21/25 | 05/27/25 | |
| *Surrogate: n-Nonane* | | *89.0 %* | *61-141* | *05/21/25* | *05/27/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **16500** | 400 | 20 | 05/21/25 | 05/22/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH06-2'**

**E505219-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *87.1 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.8 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **1170** | 40.0 | 2 | 05/21/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH06-4'**

**E505219-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *86.4 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.8 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **1360** | 20.0 | 1 | 05/21/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH06-6'**

**E505219-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *85.7 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.0 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **1880** | 40.0 | 2 | 05/21/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH06-8'**

**E505219-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.4 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.2 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *108 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **1320** | 20.0 | 1 | 05/21/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH06-10'**

**E505219-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *85.4 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *94.7 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **732** | 20.0 | 1 | 05/21/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

**BH06-11'**

**E505219-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Benzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| Toluene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/20/25 | 05/22/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *82.5 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/20/25 | 05/22/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *96.2 %* | *70-130* | *05/20/25* | *05/22/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2521103 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/23/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *05/21/25* | *05/23/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521071 |
| Chloride | **208** | 20.0 | 1 | 05/21/25 | 05/23/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521046-BLK1)** | | | | | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.25* | | *8.00* | | *90.6* | *70-130* | | | |
| **LCS (2521046-BS1)** | | | | | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Benzene | 5.88 | 0.0250 | 5.00 | | 118 | 70-130 | | | |
| Ethylbenzene | 5.77 | 0.0250 | 5.00 | | 115 | 70-130 | | | |
| Toluene | 5.84 | 0.0250 | 5.00 | | 117 | 70-130 | | | |
| o-Xylene | 5.70 | 0.0250 | 5.00 | | 114 | 70-130 | | | |
| p,m-Xylene | 11.6 | 0.0500 | 10.0 | | 116 | 70-130 | | | |
| Total Xylenes | 17.3 | 0.0250 | 15.0 | | 116 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.26* | | *8.00* | | *90.7* | *70-130* | | | |
| **Matrix Spike (2521046-MS1)** | | | | **Source: E505219-08** | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Benzene | 5.39 | 0.0250 | 5.00 | ND | 108 | 70-130 | | | |
| Ethylbenzene | 5.29 | 0.0250 | 5.00 | ND | 106 | 70-130 | | | |
| Toluene | 5.35 | 0.0250 | 5.00 | ND | 107 | 70-130 | | | |
| o-Xylene | 5.21 | 0.0250 | 5.00 | ND | 104 | 70-130 | | | |
| p,m-Xylene | 10.7 | 0.0500 | 10.0 | ND | 107 | 70-130 | | | |
| Total Xylenes | 15.9 | 0.0250 | 15.0 | ND | 106 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.13* | | *8.00* | | *89.1* | *70-130* | | | |
| **Matrix Spike Dup (2521046-MSD1)** | | | | **Source: E505219-08** | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Benzene | 5.55 | 0.0250 | 5.00 | ND | 111 | 70-130 | 2.93 | 27 | |
| Ethylbenzene | 5.44 | 0.0250 | 5.00 | ND | 109 | 70-130 | 2.78 | 26 | |
| Toluene | 5.51 | 0.0250 | 5.00 | ND | 110 | 70-130 | 2.86 | 20 | |
| o-Xylene | 5.36 | 0.0250 | 5.00 | ND | 107 | 70-130 | 2.83 | 25 | |
| p,m-Xylene | 11.0 | 0.0500 | 10.0 | ND | 110 | 70-130 | 2.75 | 23 | |
| Total Xylenes | 16.3 | 0.0250 | 15.0 | ND | 109 | 70-130 | 2.78 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.13* | | *8.00* | | *89.1* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521046-BLK1)** | | | | | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.56* | | *8.00* | | *94.5* | *70-130* | | | |
| **LCS (2521046-BS2)** | | | | | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Gasoline Range Organics (C6-C10) | 44.5 | 20.0 | 50.0 | | 88.9 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.72* | | *8.00* | | *96.5* | *70-130* | | | |
| **Matrix Spike (2521046-MS2)** | | | | **Source: E505219-08** | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Gasoline Range Organics (C6-C10) | 41.0 | 20.0 | 50.0 | ND | 82.0 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.63* | | *8.00* | | *95.4* | *70-130* | | | |
| **Matrix Spike Dup (2521046-MSD2)** | | | | **Source: E505219-08** | | | | | Prepared: 05/20/25 Analyzed: 05/22/25 |
| Gasoline Range Organics (C6-C10) | 45.3 | 20.0 | 50.0 | ND | 90.5 | 70-130 | 9.88 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.68* | | *8.00* | | *96.0* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521103-BLK1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *50.8* | | *50.0* | | *102* | *61-141* | | | |
| **LCS (2521103-BS1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Diesel Range Organics (C10-C28) | 261 | 25.0 | 250 | | 104 | 66-144 | | | |
| *Surrogate: n-Nonane* | *50.8* | | *50.0* | | *102* | *61-141* | | | |
| **Matrix Spike (2521103-MS1)** | | | | **Source: E505219-02** | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Diesel Range Organics (C10-C28) | 266 | 25.0 | 250 | ND | 107 | 56-156 | | | |
| *Surrogate: n-Nonane* | *53.2* | | *50.0* | | *106* | *61-141* | | | |
| **Matrix Spike Dup (2521103-MSD1)** | | | | **Source: E505219-02** | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Diesel Range Organics (C10-C28) | 263 | 25.0 | 250 | ND | 105 | 56-156 | 1.40 | 20 | |
| *Surrogate: n-Nonane* | *52.0* | | *50.0* | | *104* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/27/2025 11:26:38AM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521071-BLK1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/22/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2521071-BS1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/22/25 |
| Chloride | 259 | 20.0 | 250 | | 104 | 90-110 | | | |
| **Matrix Spike (2521071-MS1)** | | | | **Source: E505219-03** | | | | | Prepared: 05/21/25 Analyzed: 05/22/25 |
| Chloride | 484 | 20.0 | 250 | 212 | 109 | 80-120 | | | |
| **Matrix Spike Dup (2521071-MSD1)** | | | | **Source: E505219-03** | | | | | Prepared: 05/21/25 Analyzed: 05/22/25 |
| Chloride | 490 | 20.0 | 250 | 212 | 111 | 80-120 | 1.39 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/27/25 11:26 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505219 | Job Number 23003-0002 | 1D 2D 3D Std: X | NM: X CO UT TX |
| Project: Marbob State #001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:28 | 5/16/2025 | S | 1 | BH05-0' | | 1 | | | | | | X | | | | | 0.6 | |
| 9:30 | 5/16/2025 | S | 1 | BH05-1' | | 2 | | | | | | X | | | | | 1.1 | |
| 9:34 | 5/16/2025 | S | 1 | BH05-2' | | 3 | | | | | | X | | | | | 2.2 | Only run for BGDOC if BH05-1' is greater than 100 TPH or 600 Cl- |
| 10:50 | 5/16/2025 | S | 1 | BH06-0' | | 4 | | | | | | X | | | | | 2.9 | |
| 11:03 | 5/16/2025 | S | 1 | BH06-2' | | 5 | | | | | | X | | | | | 2.4 | Corrected per |
| 11:28 | 5/16/2025 | S | 1 | BH06-4' | | 6 | | | | | | X | | | | | 0.7 | Client. |
| 11:37 | 5/16/2025 | S | 1 | BH06-6' | | 7 | | | | | | X | | | | | 0.9 | 5/20/25 CM |
| 13:19 | 5/16/2025 | S | 1 | BH06-8' | | 8 | | | | | | X | | | | | 2.9 | |
| 13:36 | 5/16/2025 | S | 1 | BH06-10' | | 9 | | | | | | X | | | | | 2.1 | BH06-10' |
| 14:17 | 5/16/2025 | S | 1 | BH06-11' | | 10 | | | | | | X | | | | | 2.4 | Only run for BGDOC if ~~BH05-0'~~ is greater than 100 TPH or 600 Cl- |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance: Y or N

PWSID #:

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/19/25 | 7:11 | | 5.19.25 | 1145 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| | 5.19.25 | 1600 | Andrew M. | 5.19.25 | 1600 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Andrew M. | 5.19.25 | 2230 | Caitlin Mars | 5.20.25 | 745 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505219 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23003.0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:28 | 5/16/2025 | S | 1 | BH05-0' | | 1 | | | | | | X | | | | | 0.6 | |
| 9:30 | 5/16/2025 | S | 1 | BH05-1' | | 2 | | | | | | X | | | | | 1.1 | |
| 9:34 | 5/16/2025 | S | 1 | BH05-2' | | 3 | | | | | | X | | | | | 2.2 | Only run for BGDOC if BH05-1' is greater than 100 TPH or 600 Cl- |
| 10:50 | 5/16/2025 | S | 1 | BH06-0' | | 4 | | | | | | X | | | | | 2.9 | |
| 11:03 | 5/16/2025 | S | 1 | BH06-2' | | 5 | | | | | | X | | | | | 2.4 | |
| 11:28 | 5/16/2025 | S | 1 | BH06-4' | | 6 | | | | | | X | | | | | 0.7 | |
| 11:37 | 5/16/2025 | S | 1 | BH06-6' | | 7 | | | | | | X | | | | | 0.9 | |
| 13:19 | 5/16/2025 | S | 1 | BH06-8' | | 8 | | | | | | X | | | | | 2.9 | |
| 13:36 | 5/16/2025 | S | 1 | BH06-10' | | 9 | | | | | | X | | | | | 2.1 | |
| 14:17 | 5/16/2025 | S | 1 | BH06-11' | | 10 | | | | | | X | | | | | 2.4 | Only run for BGDOC if BH10-10' is greater than 100 TPH or 600 Cl- |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/19/25 | 7-11 | | 5.19.25 | 1145 |
| | 5.19.25 | 1600 | | 5.19.25 | 1600 |
| | 5.19.25 | 2230 | | 5.20.25 | 745 |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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# Envirotech Analytical Laboratory

Printed: 5/21/2025 9:07:27AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/20/25 07:45 | Work Order ID: | E505219 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/19/25 14:28 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/27/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Comments/Resolution**

Client remarks- Do not run Sample 3 if BH05-1 is greater then 100 TPH or 600 CL. Do not run sample 10 if BH06-10 is greater than 100 TPH or 600 CL.

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505236 |
| Job Number: | 23003-0002 |
| Received: | 5/21/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/28/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/28/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505236
Date Received: 5/21/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2025 8:00:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/28/25 09:44 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| BH07-0' | E505236-01A | Soil | 05/19/25 | 05/21/25 | Glass Jar, 2 oz. |
| BH07-1' | E505236-02A | Soil | 05/19/25 | 05/21/25 | Glass Jar, 2 oz. |
| BH07-2' | E505236-03A | Soil | 05/19/25 | 05/21/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/28/2025 9:44:47AM |

**BH07-0'**

**E505236-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521088 |
| Benzene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| Toluene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/21/25 | 05/23/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *109 %* | *70-130* | *05/21/25* | *05/23/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521088 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *101 %* | *70-130* | *05/21/25* | *05/23/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521077 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/27/25 | |
| *Surrogate: n-Nonane* | | *108 %* | *61-141* | *05/21/25* | *05/27/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521119 |
| Chloride | **31000** | 1000 | 50 | 05/22/25 | 05/22/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/28/2025 9:44:47AM |

**BH07-1'**

**E505236-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521088 |
| Benzene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| Toluene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/21/25 | 05/23/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *109 %* | *70-130* | *05/21/25* | *05/23/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521088 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *101 %* | *70-130* | *05/21/25* | *05/23/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521077 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/27/25 | |
| *Surrogate: n-Nonane* | | *106 %* | *61-141* | *05/21/25* | *05/27/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521119 |
| Chloride | **1310** | 100 | 5 | 05/22/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/28/2025 9:44:47AM |

**BH07-2'**

**E505236-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521088 |
| Benzene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| Toluene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/21/25 | 05/23/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *108 %* | *70-130* | *05/21/25* | *05/23/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2521088 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/21/25 | 05/23/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *101 %* | *70-130* | *05/21/25* | *05/23/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521077 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/21/25 | 05/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/21/25 | 05/27/25 | |
| *Surrogate: n-Nonane* | | *111 %* | *61-141* | *05/21/25* | *05/27/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521119 |
| Chloride | **152** | 20.0 | 1 | 05/22/25 | 05/23/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/28/2025 9:44:47AM |

## Volatile Organics by EPA 8021B

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521088-BLK1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.35* | | *8.00* | | *104* | *70-130* | | | |
| **LCS (2521088-BS1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Benzene | 4.81 | 0.0250 | 5.00 | | 96.3 | 70-130 | | | |
| Ethylbenzene | 4.76 | 0.0250 | 5.00 | | 95.2 | 70-130 | | | |
| Toluene | 4.81 | 0.0250 | 5.00 | | 96.2 | 70-130 | | | |
| o-Xylene | 4.68 | 0.0250 | 5.00 | | 93.7 | 70-130 | | | |
| p,m-Xylene | 9.59 | 0.0500 | 10.0 | | 95.9 | 70-130 | | | |
| Total Xylenes | 14.3 | 0.0250 | 15.0 | | 95.2 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.65* | | *8.00* | | *108* | *70-130* | | | |
| **Matrix Spike (2521088-MS1)** | | | | **Source: E505233-06** | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Benzene | 5.32 | 0.0250 | 5.00 | ND | 106 | 70-130 | | | |
| Ethylbenzene | 5.23 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| Toluene | 5.30 | 0.0250 | 5.00 | ND | 106 | 70-130 | | | |
| o-Xylene | 5.16 | 0.0250 | 5.00 | ND | 103 | 70-130 | | | |
| p,m-Xylene | 10.5 | 0.0500 | 10.0 | ND | 105 | 70-130 | | | |
| Total Xylenes | 15.7 | 0.0250 | 15.0 | ND | 104 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.62* | | *8.00* | | *108* | *70-130* | | | |
| **Matrix Spike Dup (2521088-MSD1)** | | | | **Source: E505233-06** | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Benzene | 5.55 | 0.0250 | 5.00 | ND | 111 | 70-130 | 4.31 | 27 | |
| Ethylbenzene | 5.47 | 0.0250 | 5.00 | ND | 109 | 70-130 | 4.41 | 26 | |
| Toluene | 5.54 | 0.0250 | 5.00 | ND | 111 | 70-130 | 4.38 | 20 | |
| o-Xylene | 5.40 | 0.0250 | 5.00 | ND | 108 | 70-130 | 4.43 | 25 | |
| p,m-Xylene | 11.0 | 0.0500 | 10.0 | ND | 110 | 70-130 | 4.42 | 23 | |
| Total Xylenes | 16.4 | 0.0250 | 15.0 | ND | 109 | 70-130 | 4.42 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.62* | | *8.00* | | *108* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/28/2025 9:44:47AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521088-BLK1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.02* | | *8.00* | | *100* | *70-130* | | | |
| **LCS (2521088-BS2)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Gasoline Range Organics (C6-C10) | 44.3 | 20.0 | 50.0 | | 88.5 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.21* | | *8.00* | | *103* | *70-130* | | | |
| **Matrix Spike (2521088-MS2)** | | | | **Source: E505233-06** | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Gasoline Range Organics (C6-C10) | 47.1 | 20.0 | 50.0 | ND | 94.2 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.20* | | *8.00* | | *103* | *70-130* | | | |
| **Matrix Spike Dup (2521088-MSD2)** | | | | **Source: E505233-06** | | | | | Prepared: 05/21/25 Analyzed: 05/23/25 |
| Gasoline Range Organics (C6-C10) | 45.5 | 20.0 | 50.0 | ND | 90.9 | 70-130 | 3.54 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.19* | | *8.00* | | *102* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/28/2025 9:44:47AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521077-BLK1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/27/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *55.2* | | *50.0* | | *110* | *61-141* | | | |
| **LCS (2521077-BS1)** | | | | | | | | | Prepared: 05/21/25 Analyzed: 05/27/25 |
| Diesel Range Organics (C10-C28) | 291 | 25.0 | 250 | | 116 | 66-144 | | | |
| *Surrogate: n-Nonane* | *51.3* | | *50.0* | | *103* | *61-141* | | | |
| **Matrix Spike (2521077-MS1)** | | | | **Source: E505238-02** | | | | | Prepared: 05/21/25 Analyzed: 05/27/25 |
| Diesel Range Organics (C10-C28) | 298 | 25.0 | 250 | ND | 119 | 56-156 | | | |
| *Surrogate: n-Nonane* | *55.5* | | *50.0* | | *111* | *61-141* | | | |
| **Matrix Spike Dup (2521077-MSD1)** | | | | **Source: E505238-02** | | | | | Prepared: 05/21/25 Analyzed: 05/27/25 |
| Diesel Range Organics (C10-C28) | 308 | 25.0 | 250 | ND | 123 | 56-156 | 3.33 | 20 | |
| *Surrogate: n-Nonane* | *56.5* | | *50.0* | | *113* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/28/2025 9:44:47AM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521119-BLK1)** | | | | | | | | | Prepared: 05/22/25 Analyzed: 05/22/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2521119-BS1)** | | | | | | | | | Prepared: 05/22/25 Analyzed: 05/22/25 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| **Matrix Spike (2521119-MS1)** | | | | **Source: E505227-03** | | | | | Prepared: 05/22/25 Analyzed: 05/22/25 |
| Chloride | 258 | 20.0 | 250 | ND | 103 | 80-120 | | | |
| **Matrix Spike Dup (2521119-MSD1)** | | | | **Source: E505227-03** | | | | | Prepared: 05/22/25 Analyzed: 05/22/25 |
| Chloride | 258 | 20.0 | 250 | ND | 103 | 80-120 | 0.230 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/28/25 09:44 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E50582360 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 2303.0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:00 | 5/19/2025 | S | 1 | BH07-0' | | 1 | | | | | | X | | | | | | 2.5 |
| 11:03 | 5/19/2025 | S | 1 | BH07-1' | | 2 | | | | | | X | | | | | | 2.3 |
| 11:07 | 5/19/2025 | S | 1 | BH07-2' | | 3 | | | | | | X | | | | | | 2.4 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/20/25 | 7:11 | Cloe Winston Parker | 5.20.25 | 1045 |
| Cloe Winston Parker | 5.20.25 | 1700 | | 5.20.25 | 1600 |
| | 5.20.25 | 2230 | Caitlin Mars | 5.21.25 | 800 |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





envirotech

# Envirotech Analytical Laboratory

Printed: 5/21/2025 9:36:22AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/21/25 08:00 | Work Order ID: | E505236 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/20/25 15:27 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/28/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E505246 |
| Job Number: | 23003-0002 |
| Received: | 5/22/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/29/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/29/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E505246
Date Received: 5/22/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/22/2025 6:45:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
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ljarboe@envirotech-inc.com

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Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

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|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/29/25 08:49 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| BH08-4' | E505246-01A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH08-5' | E505246-02A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH08-6' | E505246-03A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH09-4' | E505246-04A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH09-5' | E505246-05A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10A-4' | E505246-06A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10A-5' | E505246-07A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10A-6' | E505246-08A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10B-4' | E505246-09A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10B-5' | E505246-10A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10B-6' | E505246-11A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10C-4' | E505246-12A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10C-5' | E505246-13A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |
| BH10-6' | E505246-14A | Soil | 05/20/25 | 05/22/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH08-4'**

**E505246-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *111 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *113 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **968** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH08-5'**

**E505246-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.1 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *113 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *116 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **590** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH08-6'**

**E505246-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *110 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *116 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **382** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH09-4'**

**E505246-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *109 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *114 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **390** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH09-5'**

**E505246-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *97.8 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *109 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *118 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **212** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10A-4'**

**E505246-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *108 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *116 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | ND | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10A-5'**

**E505246-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *113 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *116 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | ND | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10A-6'**

**E505246-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *111 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *112 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | ND | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10B-4'**

**E505246-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.4 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *110 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *114 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **89.4** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10B-5'**

**E505246-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *98.1 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *110 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *114 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **72.1** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10B-6'**

**E505246-11**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.2 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *112 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *117 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **45.3** | 20.0 | 1 | 05/23/25 | 05/23/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10C-4'**

**E505246-12**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *105 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *112 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *115 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **71.9** | 20.0 | 1 | 05/23/25 | 05/24/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

## BH10C-5'

## E505246-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *111 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *117 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **82.8** | 20.0 | 1 | 05/23/25 | 05/24/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

**BH10-6'**

**E505246-14**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Benzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| Toluene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| o-Xylene | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/22/25 | 05/24/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *98.9 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2521112 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/22/25 | 05/24/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *113 %* | *70-130* | *05/22/25* | *05/24/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: NV | | | Batch: 2521132 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/23/25 | 05/24/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/23/25 | 05/24/25 | |
| *Surrogate: n-Nonane* | | *118 %* | *61-141* | *05/23/25* | *05/24/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2521136 |
| Chloride | **70.2** | 20.0 | 1 | 05/23/25 | 05/24/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521112-BLK1)** | | | | | | | | | Prepared: 05/22/25 Analyzed: 05/24/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.94* | | *8.00* | | *99.3* | *70-130* | | | |
| **LCS (2521112-BS1)** | | | | | | | | | Prepared: 05/22/25 Analyzed: 05/24/25 |
| Benzene | 4.77 | 0.0250 | 5.00 | | 95.5 | 70-130 | | | |
| Ethylbenzene | 4.93 | 0.0250 | 5.00 | | 98.6 | 70-130 | | | |
| Toluene | 4.88 | 0.0250 | 5.00 | | 97.6 | 70-130 | | | |
| o-Xylene | 4.92 | 0.0250 | 5.00 | | 98.4 | 70-130 | | | |
| p,m-Xylene | 10.0 | 0.0500 | 10.0 | | 100 | 70-130 | | | |
| Total Xylenes | 14.9 | 0.0250 | 15.0 | | 99.5 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.94* | | *8.00* | | *99.3* | *70-130* | | | |
| **Matrix Spike (2521112-MS1)** | | | | **Source: E505246-06** | | | | | Prepared: 05/22/25 Analyzed: 05/27/25 |
| Benzene | 4.84 | 0.0250 | 5.00 | ND | 96.8 | 70-130 | | | |
| Ethylbenzene | 4.82 | 0.0250 | 5.00 | ND | 96.3 | 70-130 | | | |
| Toluene | 4.83 | 0.0250 | 5.00 | ND | 96.7 | 70-130 | | | |
| o-Xylene | 4.77 | 0.0250 | 5.00 | ND | 95.5 | 70-130 | | | |
| p,m-Xylene | 9.79 | 0.0500 | 10.0 | ND | 97.9 | 70-130 | | | |
| Total Xylenes | 14.6 | 0.0250 | 15.0 | ND | 97.1 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.59* | | *8.00* | | *94.9* | *70-130* | | | |
| **Matrix Spike Dup (2521112-MSD1)** | | | | **Source: E505246-06** | | | | | Prepared: 05/22/25 Analyzed: 05/24/25 |
| Benzene | 4.78 | 0.0250 | 5.00 | ND | 95.6 | 70-130 | 1.24 | 27 | |
| Ethylbenzene | 4.89 | 0.0250 | 5.00 | ND | 97.7 | 70-130 | 1.44 | 26 | |
| Toluene | 4.86 | 0.0250 | 5.00 | ND | 97.3 | 70-130 | 0.618 | 20 | |
| o-Xylene | 4.90 | 0.0250 | 5.00 | ND | 97.9 | 70-130 | 2.51 | 25 | |
| p,m-Xylene | 9.88 | 0.0500 | 10.0 | ND | 98.8 | 70-130 | 0.992 | 23 | |
| Total Xylenes | 14.8 | 0.0250 | 15.0 | ND | 98.5 | 70-130 | 1.49 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.49* | | *8.00* | | *93.7* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521112-BLK1)** | | | | | | | | | Prepared: 05/22/25 Analyzed: 05/24/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.98* | | *8.00* | | *112* | *70-130* | | | |
| **LCS (2521112-BS2)** | | | | | | | | | Prepared: 05/22/25 Analyzed: 05/27/25 |
| Gasoline Range Organics (C6-C10) | 49.2 | 20.0 | 50.0 | | 98.4 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.49* | | *8.00* | | *119* | *70-130* | | | |
| **Matrix Spike (2521112-MS2)** | | | | **Source: E505246-06** | | | | | Prepared: 05/22/25 Analyzed: 05/24/25 |
| Gasoline Range Organics (C6-C10) | 52.6 | 20.0 | 50.0 | ND | 105 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.92* | | *8.00* | | *111* | *70-130* | | | |
| **Matrix Spike Dup (2521112-MSD2)** | | | | **Source: E505246-06** | | | | | Prepared: 05/22/25 Analyzed: 05/27/25 |
| Gasoline Range Organics (C6-C10) | 55.7 | 20.0 | 50.0 | ND | 111 | 70-130 | 5.82 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.22* | | *8.00* | | *115* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521132-BLK1)** | | | | | | | | | Prepared: 05/23/25 Analyzed: 05/24/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *55.6* | | *50.0* | | *111* | *61-141* | | | |
| **LCS (2521132-BS1)** | | | | | | | | | Prepared: 05/23/25 Analyzed: 05/24/25 |
| Diesel Range Organics (C10-C28) | 314 | 25.0 | 250 | | 126 | 66-144 | | | |
| *Surrogate: n-Nonane* | *57.0* | | *50.0* | | *114* | *61-141* | | | |
| **Matrix Spike (2521132-MS1)** | | | | **Source: E505246-01** | | | | | Prepared: 05/23/25 Analyzed: 05/24/25 |
| Diesel Range Organics (C10-C28) | 308 | 25.0 | 250 | ND | 123 | 56-156 | | | |
| *Surrogate: n-Nonane* | *57.6* | | *50.0* | | *115* | *61-141* | | | |
| **Matrix Spike Dup (2521132-MSD1)** | | | | **Source: E505246-01** | | | | | Prepared: 05/23/25 Analyzed: 05/24/25 |
| Diesel Range Organics (C10-C28) | 322 | 25.0 | 250 | ND | 129 | 56-156 | 4.41 | 20 | |
| *Surrogate: n-Nonane* | *61.0* | | *50.0* | | *122* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/29/2025 8:49:04AM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2521136-BLK1)** | | | | | | | | | Prepared: 05/23/25 Analyzed: 05/23/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2521136-BS1)** | | | | | | | | | Prepared: 05/23/25 Analyzed: 05/23/25 |
| Chloride | 256 | 20.0 | 250 | | 102 | 90-110 | | | |
| **Matrix Spike (2521136-MS1)** | | | | **Source: E505246-05** | | | | | Prepared: 05/23/25 Analyzed: 05/23/25 |
| Chloride | 477 | 20.0 | 250 | 212 | 106 | 80-120 | | | |
| **Matrix Spike Dup (2521136-MSD1)** | | | | **Source: E505246-05** | | | | | Prepared: 05/23/25 Analyzed: 05/23/25 |
| Chloride | 464 | 20.0 | 250 | 212 | 101 | 80-120 | 2.62 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/29/25 08:49 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E503246 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23C03-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:25 | 5/20/2025 | S | 1 | BH08-4' | | 1 | | | | | | X | | | | | | 1.1 |
| 10:29 | 5/20/2025 | S | 1 | BH08-5' | | 2 | | | | | | X | | | | | | 2.4 |
| 10:35 | 5/20/2025 | S | 1 | BH08-6' | | 3 | | | | | | X | | | | | | 1.4 |
| 13:28 | 5/20/2025 | S | 1 | BH09-4' | | 4 | | | | | | X | | | | | | 1.8 |
| 13:34 | 5/20/2025 | S | 1 | BH09-5' | | 5 | | | | | | X | | | | | | 1.1 |
| 14:54 | 5/20/2025 | S | 1 | BH10A-4' | | 6 | | | | | | X | | | | | | 1.7 |
| 14:58 | 5/20/2025 | S | 1 | BH10A-5' | | 7 | | | | | | X | | | | | | 2.3 |
| 15:02 | 5/20/2025 | S | 1 | BH10A-6' | | 8 | | | | | | X | | | | | | 1.9 |
| 15:51 | 5/20/2025 | S | 1 | BH10B-4' | | 9 | | | | | | X | | | | | | 2.2 |
| 15:55 | 5/20/2025 | S | 1 | BH10B-5' | | 10 | | | | | | X | | | | | | 1.4 |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/21/25 | 7:11 | Michelle Gonzales | 5-21-25 | 0711 |
| Michelle Gonzales | 5-21-25 | 1615 | | 5.21.25 | 1645 |
| | 5.21.25 | 2300 | Cartle Mar | 5.22.25 | 1045 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E505246 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23C03-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:01 | 5/20/2025 | S | 1 | BH10B-6' | | 11 | | | | | | X | | | | | | 2.0 |
| 16:29 | 5/20/2025 | S | 1 | BH10C-4' | | 12 | | | | | | X | | | | | | 2.0 |
| 16:34 | 5/20/2025 | S | 1 | BH10C-5' | | 13 | | | | | | X | | | | | | 1.2 |
| 16:38 | 5/20/2025 | S | 1 | BH10-6' | | 14 | | | | | | X | | | | | | 2.2 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Aboubakar Kone

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 5/21/25 | 7:11 | Michelle Gonzales | 5-21-25 | 0711 |
| Michelle Gonzales | 5-21-25 | 1615 | | 5.21.25 | 1645 |
| | 5.21.25 | 2300 | Caleb Mon | 5.22.25 | 1645 |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: Y N

T1 T2 T3

AVG Temp °C

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

# Envirotech Analytical Laboratory

Printed: 5/22/2025 7:36:23AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 05/22/25 06:45 | Work Order ID: | E505246 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/21/25 14:28 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 05/29/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State 001 SWD |
| Work Order: | E508324 |
| Job Number: | 23003-0002 |
| Received: | 8/29/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/2/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/2/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State 001 SWD
Workorder: E508324
Date Received: 8/29/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2025 7:15:00AM, under the Project Name: Marbob State 001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State 001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/02/25 14:32 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS06-.5' | E508324-01A | Soil | 08/27/25 | 08/29/25 | Glass Jar, 2 oz. |
| SS07-0' | E508324-02A | Soil | 08/27/25 | 08/29/25 | Glass Jar, 2 oz. |
| SS07-1' | E508324-03A | Soil | 08/27/25 | 08/29/25 | Glass Jar, 2 oz. |
| SS08-0' | E508324-04A | Soil | 08/27/25 | 08/29/25 | Glass Jar, 2 oz. |
| SS08-1' | E508324-05A | Soil | 08/27/25 | 08/29/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

**SS06-.5'**

**E508324-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Benzene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| Toluene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/25 | 08/29/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.7 %* | *70-130* | *08/29/25* | *08/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/25 | 08/29/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *102 %* | *70-130* | *08/29/25* | *08/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2535126 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/25 | 08/30/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: n-Nonane* | | *92.3 %* | *61-141* | *08/29/25* | *08/30/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2535121 |
| Chloride | **108** | 20.0 | 1 | 08/29/25 | 08/29/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

**SS07-0'**

**E508324-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Benzene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| Toluene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/25 | 08/29/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *98.9 %* | *70-130* | *08/29/25* | *08/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/25 | 08/29/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *106 %* | *70-130* | *08/29/25* | *08/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2535126 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/25 | 08/30/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: n-Nonane* | | *96.3 %* | *61-141* | *08/29/25* | *08/30/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2535121 |
| Chloride | ND | 20.0 | 1 | 08/29/25 | 08/29/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

**SS07-1'**

**E508324-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Benzene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| Toluene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/25 | 08/29/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/25 | 08/29/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *08/29/25* | *08/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/25 | 08/29/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *103 %* | *70-130* | *08/29/25* | *08/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2535126 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/25 | 08/30/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: n-Nonane* | | *98.9 %* | *61-141* | *08/29/25* | *08/30/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2535121 |
| Chloride | **91.4** | 20.0 | 1 | 08/29/25 | 08/29/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

**SS08-0'**

**E508324-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Benzene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| Toluene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/25 | 08/30/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.7 %* | *70-130* | *08/29/25* | *08/30/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *104 %* | *70-130* | *08/29/25* | *08/30/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2535126 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/25 | 08/30/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: n-Nonane* | | *96.5 %* | *61-141* | *08/29/25* | *08/30/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2535121 |
| Chloride | **252** | 20.0 | 1 | 08/29/25 | 08/29/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

**SS08-1'**

**E508324-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Benzene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| Toluene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/25 | 08/30/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *08/29/25* | *08/30/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2535120 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *105 %* | *70-130* | *08/29/25* | *08/30/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2535126 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/25 | 08/30/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/25 | 08/30/25 | |
| *Surrogate: n-Nonane* | | *98.4 %* | *61-141* | *08/29/25* | *08/30/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2535121 |
| Chloride | **361** | 20.0 | 1 | 08/29/25 | 08/29/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2535120-BLK1)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.09* | | *8.00* | | *101* | *70-130* | | | |
| **LCS (2535120-BS1)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Benzene | 5.21 | 0.0250 | 5.00 | | 104 | 70-130 | | | |
| Ethylbenzene | 5.15 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| Toluene | 5.19 | 0.0250 | 5.00 | | 104 | 70-130 | | | |
| o-Xylene | 5.15 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| p,m-Xylene | 10.4 | 0.0500 | 10.0 | | 104 | 70-130 | | | |
| Total Xylenes | 15.6 | 0.0250 | 15.0 | | 104 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.03* | | *8.00* | | *100* | *70-130* | | | |
| **Matrix Spike (2535120-MS1)** | | | | **Source: E508321-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Benzene | 5.28 | 0.0250 | 5.00 | ND | 106 | 70-130 | | | |
| Ethylbenzene | 5.21 | 0.0250 | 5.00 | ND | 104 | 70-130 | | | |
| Toluene | 5.26 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| o-Xylene | 5.21 | 0.0250 | 5.00 | ND | 104 | 70-130 | | | |
| p,m-Xylene | 10.6 | 0.0500 | 10.0 | ND | 106 | 70-130 | | | |
| Total Xylenes | 15.8 | 0.0250 | 15.0 | ND | 105 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.97* | | *8.00* | | *99.6* | *70-130* | | | |
| **Matrix Spike Dup (2535120-MSD1)** | | | | **Source: E508321-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Benzene | 5.32 | 0.0250 | 5.00 | ND | 106 | 70-130 | 0.652 | 27 | |
| Ethylbenzene | 5.26 | 0.0250 | 5.00 | ND | 105 | 70-130 | 0.923 | 26 | |
| Toluene | 5.30 | 0.0250 | 5.00 | ND | 106 | 70-130 | 0.724 | 20 | |
| o-Xylene | 5.25 | 0.0250 | 5.00 | ND | 105 | 70-130 | 0.726 | 25 | |
| p,m-Xylene | 10.7 | 0.0500 | 10.0 | ND | 107 | 70-130 | 0.818 | 23 | |
| Total Xylenes | 15.9 | 0.0250 | 15.0 | ND | 106 | 70-130 | 0.788 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.08* | | *8.00* | | *101* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2535120-BLK1)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.36* | | *8.00* | | *104* | *70-130* | | | |
| **LCS (2535120-BS2)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Gasoline Range Organics (C6-C10) | 53.6 | 20.0 | 50.0 | | 107 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.51* | | *8.00* | | *106* | *70-130* | | | |
| **Matrix Spike (2535120-MS2)** | | | | **Source: E508321-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Gasoline Range Organics (C6-C10) | 52.1 | 20.0 | 50.0 | ND | 104 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.58* | | *8.00* | | *107* | *70-130* | | | |
| **Matrix Spike Dup (2535120-MSD2)** | | | | **Source: E508321-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Gasoline Range Organics (C6-C10) | 53.7 | 20.0 | 50.0 | ND | 107 | 70-130 | 3.05 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.32* | | *8.00* | | *104* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2535126-BLK1)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *45.1* | | *50.0* | | *90.1* | *61-141* | | | |
| **LCS (2535126-BS1)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Diesel Range Organics (C10-C28) | 224 | 25.0 | 250 | | 89.4 | 66-144 | | | |
| *Surrogate: n-Nonane* | *45.1* | | *50.0* | | *90.2* | *61-141* | | | |
| **Matrix Spike (2535126-MS1)** | | | | **Source: E508323-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Diesel Range Organics (C10-C28) | 242 | 25.0 | 250 | ND | 96.9 | 56-156 | | | |
| *Surrogate: n-Nonane* | *46.2* | | *50.0* | | *92.4* | *61-141* | | | |
| **Matrix Spike Dup (2535126-MSD1)** | | | | **Source: E508323-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Diesel Range Organics (C10-C28) | 241 | 25.0 | 250 | ND | 96.5 | 56-156 | 0.441 | 20 | |
| *Surrogate: n-Nonane* | *45.4* | | *50.0* | | *90.8* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/2/2025 2:32:27PM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2535121-BLK1)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2535121-BS1)** | | | | | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Chloride | 251 | 20.0 | 250 | | 101 | 90-110 | | | |
| **Matrix Spike (2535121-MS1)** | | | | **Source: E508323-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Chloride | 452 | 20.0 | 250 | 188 | 106 | 80-120 | | | |
| **Matrix Spike Dup (2535121-MSD1)** | | | | **Source: E508323-01** | | | | | Prepared: 08/29/25 Analyzed: 08/29/25 |
| Chloride | 440 | 20.0 | 250 | 188 | 101 | 80-120 | 2.56 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State 001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/02/25 14:32 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E508324 | 1D X | NM x |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23003-0002 | 2D | CO |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | 3D | UT |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | Std ++ | TX |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | CM 9/2/25 | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | B6OOC - NM | B6OOC - TX | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1020 | 8-27-25 | S | 1 | SS06-.5' | | 1 | | | | | | | | X | | 2.8 | Client |
| 0855 | ↓ | ↓ | ↓ | SS07-0' | | 2 | | | | | | | | X | | 3.5 | asked to |
| 0938 | | | | SS07-1' | | 3 | | | | | | | | X | | 2.9 | change |
| 1130 | | | | SS08-0' | | 4 | | | | | | | | X | | 2.9 | TAT to |
| 1140 | ↓ | ↓ | ↓ | SS08-1' | | 5 | | | | | | | | X | | 2.9 | 1 day. 9/2 |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jhinkle@ensolum.com, akone@ensolum.com, lgonzales@ensolum.com, jmccauley@ensolum.com, eplugge@ensoluvm.com, usantillana@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Eric Plugge & Jenna Hinkle

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Eric Plugge | 08-28-25 | 7:00 | Michelle Gonzales | 8.28.25 | 0700 |
| Michelle Gonzales | 8-28-25 | 1441530 | Marissa Gonzales | 8-28-25 | 1530 |
| Marissa Gonzales | 8-28-25 | 1900 | Andrew Musso | 8.28.25 | 1900 |
| Andrew Musso | 8.28.25 | 2315 | Noe Soto | 8-29-25 | 0715 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only
Received on ice: Ⓨ/N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E508324 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23003-0002 | x | x |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1020 | 8-27-25 | S | 1 | SS06-.5' | | 1 | | | | | | | | | X | | | 2.8 | |
| 0855 | | | | SS07-0' | | 2 | | | | | | | | | X | | | 3.5 | |
| 0938 | | | | SS07-1' | | 3 | | | | | | | | | X | | | 2.9 | |
| 1130 | | | | SS08-0' | | 4 | | | | | | | | | X | | | 2.9 | |
| 1140 | | | | SS08-1' | | 5 | | | | | | | | | X | | | 2.9 | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jhinkle@ensolum.com, akone@ensolum.com, lgonzales@ensolum.com, lmccauley@ensolum.com, eplugge@ensoluvm.com, usantillana@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Eric Plugge & Jenna Hinkle

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Eric Plugge | 08-28-25 | 7:00 | Michelle Gonzales | 8.28.25 | 0700 |
| Michelle Gonzales | 8-28-25 | 1530 | Marissa Gonzales | 8-28-25 | 1530 |
| Marissa Gonzales | 8-28-25 | 1900 | Andrew Musso | 8.28.25 | 1900 |
| Andrew Musso | 8.28.25 | 2315 | Joe Sato | 8.29.25 | 0715 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only
Received on ice: Y / N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 9/2/2025 10:37:59AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 08/29/25 07:15 | Work Order ID: | E508324 |
| Phone: | (972) 371-5200 | Date Logged In: | 08/28/25 15:42 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 09/02/25 07:00 (1 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Comments/Resolution**

**Sample Turn Around Time (TAT)**

| | |
|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |

**Sample Cooler**

| | |
|---|---|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | |

**Sample Container**

| | |
|---|---|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

**Field Label**

| | |
|---|---|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

**Sample Preservation**

| | |
|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

**Multiphase Sample Matrix**

| | |
|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 |
| Work Order: | E512079 |
| Job Number: | 23003-0002 |
| Received: | 12/9/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/15/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001
Workorder: E512079
Date Received: 12/9/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2025 8:00:00AM, under the Project Name: Marbob State #001.

The analytical test results summarized in this report with the Project Name: Marbob State #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

**Michelle Gonzales**
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 08:34 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS06A-0' | E512079-01A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS06B-0' | E512079-02A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS06C-0' | E512079-03A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS07A-0' | E512079-04A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS07B-0' | E512079-05A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS07C-0' | E512079-06A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS08A-0' | E512079-07A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS08B-0' | E512079-08A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SS08C-0' | E512079-09A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS06A-0'**

**E512079-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.2 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.0 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *98.5 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.2 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.0 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *98.5 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.1 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **4490** | 100 | 5 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS06B-0'**

**E512079-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *98.8 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *95.4 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *98.4 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *98.8 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *95.4 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *98.4 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | **25.7** | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.4 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **4400** | 100 | 5 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS06C-0'**

**E512079-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.5 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *99.8 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *106 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.5 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *99.8 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *106 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **3820** | 40.0 | 2 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS07A-0'**

**E512079-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *96.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *103 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *96.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *103 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | **86.4** | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | **59.0** | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *100 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **927** | 20.0 | 1 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS07B-0'**

**E512079-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *98.0 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *92.2 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *115 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *98.0 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *92.2 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *115 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | **72.4** | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | **78.0** | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *96.5 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **1370** | 20.0 | 1 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS07C-0'**

**E512079-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *90.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *93.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *90.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *93.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *98.9 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **986** | 20.0 | 1 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS08A-0'**

**E512079-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.8 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.8 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *98.0 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **1520** | 20.0 | 1 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS08B-0'**

**E512079-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.1 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *99.4 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.1 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.7 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *99.4 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.5 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **1620** | 20.0 | 1 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

**SS08C-0'**

**E512079-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.2 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *104 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *97.0 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550041 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/09/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.2 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *104 %* | *70-130* | *12/09/25* | *12/09/25* | |
| *Surrogate: Toluene-d8* | | *97.0 %* | *70-130* | *12/09/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | **32.0** | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | **56.6** | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *99.8 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550065 |
| Chloride | **2970** | 40.0 | 2 | 12/10/25 | 12/10/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550041-BLK1)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: Bromofluorobenzene* | *0.507* | | *0.500* | | *101* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.495* | | *0.500* | | *98.9* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.504* | | *0.500* | | *101* | *70-130* | | | |
| **LCS (2550041-BS1)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Benzene | 2.23 | 0.0250 | 2.50 | | 89.2 | 70-130 | | | |
| Ethylbenzene | 2.42 | 0.0250 | 2.50 | | 96.8 | 70-130 | | | |
| Toluene | 2.31 | 0.0250 | 2.50 | | 92.3 | 70-130 | | | |
| o-Xylene | 2.35 | 0.0250 | 2.50 | | 93.9 | 70-130 | | | |
| p,m-Xylene | 4.81 | 0.0500 | 5.00 | | 96.2 | 70-130 | | | |
| Total Xylenes | 7.16 | 0.0250 | 7.50 | | 95.4 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.493* | | *0.500* | | *98.6* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.505* | | *0.500* | | *101* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.509* | | *0.500* | | *102* | *70-130* | | | |
| **Matrix Spike (2550041-MS1)** | | | | **Source: E512079-08** | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Benzene | 2.28 | 0.0250 | 2.50 | ND | 91.2 | 48-131 | | | |
| Ethylbenzene | 2.41 | 0.0250 | 2.50 | ND | 96.3 | 45-135 | | | |
| Toluene | 2.29 | 0.0250 | 2.50 | ND | 91.7 | 48-130 | | | |
| o-Xylene | 2.35 | 0.0250 | 2.50 | ND | 93.8 | 43-135 | | | |
| p,m-Xylene | 4.82 | 0.0500 | 5.00 | ND | 96.4 | 43-135 | | | |
| Total Xylenes | 7.17 | 0.0250 | 7.50 | ND | 95.5 | 43-135 | | | |
| *Surrogate: Bromofluorobenzene* | *0.494* | | *0.500* | | *98.7* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.501* | | *0.500* | | *100* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.490* | | *0.500* | | *97.9* | *70-130* | | | |
| **Matrix Spike Dup (2550041-MSD1)** | | | | **Source: E512079-08** | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Benzene | 2.29 | 0.0250 | 2.50 | ND | 91.6 | 48-131 | 0.438 | 23 | |
| Ethylbenzene | 2.43 | 0.0250 | 2.50 | ND | 97.2 | 45-135 | 0.931 | 27 | |
| Toluene | 2.32 | 0.0250 | 2.50 | ND | 92.9 | 48-130 | 1.28 | 24 | |
| o-Xylene | 2.41 | 0.0250 | 2.50 | ND | 96.4 | 43-135 | 2.71 | 27 | |
| p,m-Xylene | 4.91 | 0.0500 | 5.00 | ND | 98.2 | 43-135 | 1.81 | 27 | |
| Total Xylenes | 7.32 | 0.0250 | 7.50 | ND | 97.6 | 43-135 | 2.11 | 27 | |
| *Surrogate: Bromofluorobenzene* | *0.507* | | *0.500* | | *101* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.502* | | *0.500* | | *100* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.498* | | *0.500* | | *99.5* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550041-BLK1)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: Bromofluorobenzene* | *0.507* | | *0.500* | | *101* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.495* | | *0.500* | | *98.9* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.504* | | *0.500* | | *101* | *70-130* | | | |
| **LCS (2550041-BS2)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | 49.0 | 20.0 | 50.0 | | 98.0 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.508* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.477* | | *0.500* | | *95.3* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.512* | | *0.500* | | *102* | *70-130* | | | |
| **Matrix Spike (2550041-MS2)** | | | | **Source: E512079-08** | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | 44.9 | 20.0 | 50.0 | ND | 89.8 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.508* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.495* | | *0.500* | | *98.9* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.515* | | *0.500* | | *103* | *70-130* | | | |
| **Matrix Spike Dup (2550041-MSD2)** | | | | **Source: E512079-08** | | | | | Prepared: 12/09/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | 46.7 | 20.0 | 50.0 | ND | 93.4 | 70-130 | 3.87 | 20 | |
| *Surrogate: Bromofluorobenzene* | *0.508* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.471* | | *0.500* | | *94.1* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.510* | | *0.500* | | *102* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550073-BLK1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *49.4* | | *50.0* | | *98.7* | *61-141* | | | |
| **LCS (2550073-BS1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | 252 | 25.0 | 250 | | 101 | 66-144 | | | |
| *Surrogate: n-Nonane* | *48.4* | | *50.0* | | *96.8* | *61-141* | | | |
| **Matrix Spike (2550073-MS1)** | | | | **Source: E512078-03** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | 258 | 25.0 | 250 | ND | 103 | 56-156 | | | |
| *Surrogate: n-Nonane* | *49.3* | | *50.0* | | *98.6* | *61-141* | | | |
| **Matrix Spike Dup (2550073-MSD1)** | | | | **Source: E512078-03** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | 262 | 25.0 | 250 | ND | 105 | 56-156 | 1.48 | 20 | |
| *Surrogate: n-Nonane* | *50.6* | | *50.0* | | *101* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:34:37AM |

## Anions by EPA 300.0/9056A

Analyst: TP

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550065-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/10/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2550065-BS1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/10/25 |
| Chloride | 259 | 20.0 | 250 | | 104 | 90-110 | | | |
| **Matrix Spike (2550065-MS1)** | | | | **Source: E512082-01** | | | | | Prepared: 12/10/25 Analyzed: 12/10/25 |
| Chloride | 754 | 20.0 | 250 | 516 | 95.3 | 80-120 | | | |
| **Matrix Spike Dup (2550065-MSD1)** | | | | **Source: E512082-01** | | | | | Prepared: 12/10/25 Analyzed: 12/10/25 |
| Chloride | 807 | 20.0 | 250 | 516 | 117 | 80-120 | 6.81 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 08:34 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512079 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23008-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1024 | 12/5/2025 | S | 1 | SS06A - 0' | | 1 | | | | | | | | | X | | | 4.3 | |
| 1025 | 12/5/2025 | S | 1 | SS06B - 0' | | 2 | | | | | | | | | X | | | 4.0 | |
| 1027 | 12/5/2025 | S | 1 | SS06C - 0' | | 3 | | | | | | | | | X | | | 4.2 | |
| 1026 | 12/5/2025 | S | 1 | SS07A - 0' | | 4 | | | | | | | | | X | | | 4.9 | |
| 1027 | 12/5/2025 | S | 1 | SS07B - 0' | | 5 | | | | | | | | | X | | | 4.6 | |
| 1029 | 12/5/2025 | S | 1 | SS07C - 0' | | 6 | | | | | | | | | X | | | 4.8 | |
| 1000 | 12/5/2025 | S | 1 | SS08A - 0' | | 7 | | | | | | | | | X | | | 4.5 | |
| 1001 | 12/5/2025 | S | 1 | SS08B - 0' | | 8 | | | | | | | | | X | | | 4.7 | |
| 1002 | 12/5/2025 | S | 1 | SS08C - 0' | | 9 | | | | | | | | | X | | | 4.6 | |
| | | | | | | | | | | | | | | | | | | | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12/8/25 | 0711 | Michelle Gonzales | 12-8-25 | 0711 |
| Michelle Gonzales | 12-8-25 | 1500 | Nathan Gonzales | 12-8-25 | 1500 |
| Nathan Gonzales | 12-8-25 | 1915 | | 12-8-25 | 1920 |
| | 12-8-25 | 2315 | | 12-9-25 | 800 |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 12/9/2025 10:09:06AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/09/25 08:00 | Work Order ID: | E512079 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/09/25 09:15 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 12/15/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

L-NS
R-CM

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 |
| Work Order: | E512217 |
| Job Number: | 23003-0002 |
| Received: | 12/29/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/6/26

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/6/26

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001
Workorder: E512217
Date Received: 12/29/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/29/2025 8:00:00AM, under the Project Name: Marbob State #001.

The analytical test results summarized in this report with the Project Name: Marbob State #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
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ljarboe@envirotech-inc.com

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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 01/06/26 08:24 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS02C-0' | E512217-01A | Soil | 12/23/25 | 12/29/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 1/6/2026 8:24:34AM |

**SS02C-0'**

**E512217-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2553010 |
| Benzene | ND | 0.0250 | 1 | 12/29/25 | 12/29/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/29/25 | 12/29/25 | |
| Toluene | ND | 0.0250 | 1 | 12/29/25 | 12/29/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/29/25 | 12/29/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/29/25 | 12/29/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/29/25 | 12/29/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *90.7 %* | *70-130* | *12/29/25* | *12/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2553010 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/29/25 | 12/29/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *90.3 %* | *70-130* | *12/29/25* | *12/29/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2553008 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/29/25 | 12/30/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/29/25 | 12/30/25 | |
| *Surrogate: n-Nonane* | | *97.0 %* | *61-141* | *12/29/25* | *12/30/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2553011 |
| Chloride | **8260** | 200 | 10 | 12/29/25 | 12/29/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 1/6/2026 8:24:34AM |

## Volatile Organics by EPA 8021B

Analyst: MB

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2553010-BLK1)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.62* | | *8.00* | | *95.2* | *70-130* | | | |
| **LCS (2553010-BS1)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Benzene | 5.04 | 0.0250 | 5.00 | | 101 | 70-130 | | | |
| Ethylbenzene | 4.76 | 0.0250 | 5.00 | | 95.2 | 70-130 | | | |
| Toluene | 4.93 | 0.0250 | 5.00 | | 98.5 | 70-130 | | | |
| o-Xylene | 4.88 | 0.0250 | 5.00 | | 97.5 | 70-130 | | | |
| p,m-Xylene | 9.71 | 0.0500 | 10.0 | | 97.1 | 70-130 | | | |
| Total Xylenes | 14.6 | 0.0250 | 15.0 | | 97.3 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.56* | | *8.00* | | *94.5* | *70-130* | | | |
| **Matrix Spike (2553010-MS1)** | | | | **Source: E512218-05** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Benzene | 5.60 | 0.0250 | 5.00 | ND | 112 | 70-130 | | | |
| Ethylbenzene | 5.26 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| Toluene | 5.47 | 0.0250 | 5.00 | ND | 109 | 70-130 | | | |
| o-Xylene | 5.39 | 0.0250 | 5.00 | ND | 108 | 70-130 | | | |
| p,m-Xylene | 10.7 | 0.0500 | 10.0 | ND | 107 | 70-130 | | | |
| Total Xylenes | 16.1 | 0.0250 | 15.0 | ND | 107 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.58* | | *8.00* | | *94.7* | *70-130* | | | |
| **Matrix Spike Dup (2553010-MSD1)** | | | | **Source: E512218-05** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Benzene | 5.43 | 0.0250 | 5.00 | ND | 109 | 70-130 | 2.97 | 27 | |
| Ethylbenzene | 5.14 | 0.0250 | 5.00 | ND | 103 | 70-130 | 2.30 | 26 | |
| Toluene | 5.32 | 0.0250 | 5.00 | ND | 106 | 70-130 | 2.79 | 20 | |
| o-Xylene | 5.25 | 0.0250 | 5.00 | ND | 105 | 70-130 | 2.69 | 25 | |
| p,m-Xylene | 10.5 | 0.0500 | 10.0 | ND | 105 | 70-130 | 2.18 | 23 | |
| Total Xylenes | 15.7 | 0.0250 | 15.0 | ND | 105 | 70-130 | 2.35 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.29* | | *8.00* | | *91.2* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 1/6/2026 8:24:34AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: MB

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2553010-BLK1)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.91* | | *8.00* | | *86.4* | *70-130* | | | |
| **LCS (2553010-BS2)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Gasoline Range Organics (C6-C10) | 52.9 | 20.0 | 50.0 | | 106 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.18* | | *8.00* | | *89.7* | *70-130* | | | |
| **Matrix Spike (2553010-MS2)** | | | | **Source: E512218-05** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Gasoline Range Organics (C6-C10) | 52.4 | 20.0 | 50.0 | ND | 105 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.43* | | *8.00* | | *92.9* | *70-130* | | | |
| **Matrix Spike Dup (2553010-MSD2)** | | | | **Source: E512218-05** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Gasoline Range Organics (C6-C10) | 52.8 | 20.0 | 50.0 | ND | 106 | 70-130 | 0.730 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.49* | | *8.00* | | *93.6* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 1/6/2026 8:24:34AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2553008-BLK1)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *46.2* | | *50.0* | | *92.4* | *61-141* | | | |
| **LCS (2553008-BS1)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Diesel Range Organics (C10-C28) | 256 | 25.0 | 250 | | 102 | 66-144 | | | |
| *Surrogate: n-Nonane* | *47.8* | | *50.0* | | *95.6* | *61-141* | | | |
| **Matrix Spike (2553008-MS1)** | | | | **Source: E512215-03** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Diesel Range Organics (C10-C28) | 268 | 25.0 | 250 | ND | 107 | 56-156 | | | |
| *Surrogate: n-Nonane* | *49.2* | | *50.0* | | *98.3* | *61-141* | | | |
| **Matrix Spike Dup (2553008-MSD1)** | | | | **Source: E512215-03** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Diesel Range Organics (C10-C28) | 277 | 25.0 | 250 | ND | 111 | 56-156 | 3.27 | 20 | |
| *Surrogate: n-Nonane* | *50.9* | | *50.0* | | *102* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 1/6/2026 8:24:34AM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2553011-BLK1)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2553011-BS1)** | | | | | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Chloride | 259 | 20.0 | 250 | | 103 | 90-110 | | | |
| **Matrix Spike (2553011-MS1)** | | | | **Source: E512215-03** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Chloride | 275 | 20.0 | 250 | ND | 110 | 80-120 | | | |
| **Matrix Spike Dup (2553011-MSD1)** | | | | **Source: E512215-03** | | | | | Prepared: 12/29/25 Analyzed: 12/29/25 |
| Chloride | 276 | 20.0 | 250 | ND | 110 | 80-120 | 0.234 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 01/06/26 08:24 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador | Company: Ensolum LLC | Lab WO# E512217 | 1D 2D 3D Std | NM CO UT TX |
| Project: Marbo State #001 | Address: 3122 National Parks Hwy | Job Number 23A03-0002 | x | x |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:05 | 12/23/2025 | S | 1 | SS02C - 0' | | 1 | | | | | | | | | x | | | 3.0 | |
| | | | | | | | | | | | | | | | | | | | |
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**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, jhinkle@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com, akone@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Cole Burton

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Cole Burton | 12/23/25 | 10:15 | Michelle Gonzales | 12-23-25 | 1015 |
| Michelle Gonzales | 12-23-25 | 1715 | Marissa Gonzales | 12-23-25 | 1715 |
| Marissa Gonzales | 12-24-25 | 0730 | Caleb Mar | 12.29.25 | 800 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 12/29/2025 12:00:42PM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/29/25 08:00 | Work Order ID: | E512217 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/29/25 08:34 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 01/06/26 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | No | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

Project name on container does not match project name on COC.
L-CM
R-NV

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 SWD |
| Work Order: | E512049 |
| Job Number: | 23003-0002 |
| Received: | 12/5/2025 |

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/16/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/16/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001 SWD
Workorder: E512049
Date Received: 12/5/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/5/2025 7:30:00AM, under the Project Name: Marbob State #001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State #001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/25 12:50 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| FS01-0.5' | E512049-01A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS02-0.5' | E512049-02A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS03-0.5' | E512049-03A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS04-0.5' | E512049-04A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS05-0.5' | E512049-05A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS06-0.5' | E512049-06A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS07-0.5' | E512049-07A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS10-0.5' | E512049-08A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS11-0.5' | E512049-09A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS12-0.5' | E512049-10A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS13-0.5' | E512049-11A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS14-0.5' | E512049-12A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS15-0.5' | E512049-13A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS16-0.5' | E512049-14A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS18-0.5' | E512049-15A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS19-0.5' | E512049-16A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS20-0.5' | E512049-17A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS21-0.5' | E512049-18A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS22-0.5' | E512049-19A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS23-0.5' | E512049-20A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS24-0.5' | E512049-21A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS25-0.5' | E512049-22A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |
| FS37-0.5' | E512049-23A | Soil | 12/03/25 | 12/05/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS01-0.5'**

**E512049-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.1 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.5 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **1740** | 20.0 | 1 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS02-0.5'**

**E512049-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *90.4 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.5 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *99.1 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **1900** | 40.0 | 2 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS03-0.5'**

**E512049-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.7 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.0 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *99.1 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **3730** | 40.0 | 2 | 12/05/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS04-0.5'**

**E512049-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *93.3 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *82.0 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **3210** | 40.0 | 2 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS05-0.5'**

**E512049-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.4 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.3 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *98.2 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **3390** | 40.0 | 2 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS06-0.5'**

**E512049-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *90.6 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *84.7 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **61.7** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **78.7** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *97.7 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **5900** | 100 | 5 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS07-0.5'**

**E512049-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *92.8 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.0 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **93.7** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **88.9** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *97.9 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **5990** | 200 | 10 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS10-0.5'**

**E512049-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.7 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.9 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **106** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **98.6** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *97.7 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **6510** | 100 | 5 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS11-0.5'**

**E512049-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *92.9 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *86.9 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **35.7** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **3860** | 40.0 | 2 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS12-0.5'**

**E512049-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.4 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *89.4 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **26.8** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **5080** | 100 | 5 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS13-0.5'**

**E512049-11**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *94.0 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *90.6 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **132** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **53.8** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *110 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **6960** | 100 | 5 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS14-0.5'**

**E512049-12**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *92.2 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.2 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **32.4** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *98.9 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **7140** | 200 | 10 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS15-0.5'**

**E512049-13**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.9 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *86.5 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *99.1 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **5660** | 100 | 5 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS16-0.5'**

**E512049-14**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *93.2 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *89.6 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **2840** | 40.0 | 2 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS18-0.5'**

**E512049-15**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *92.9 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *89.1 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **381** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **488** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **2520** | 40.0 | 2 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS19-0.5'**

**E512049-16**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *93.2 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *86.6 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *98.8 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **2690** | 40.0 | 2 | 12/05/25 | 12/05/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS20-0.5'**

**E512049-17**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *94.1 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *86.5 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **47.4** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **60.3** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *98.2 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **3950** | 40.0 | 2 | 12/05/25 | 12/06/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS21-0.5'**

**E512049-18**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *93.4 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.7 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **60.0** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **89.0** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *95.6 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **2270** | 40.0 | 2 | 12/05/25 | 12/06/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS22-0.5'**

**E512049-19**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.4 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *87.5 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **47.9** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *96.8 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **1810** | 20.0 | 1 | 12/05/25 | 12/06/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS23-0.5'**

**E512049-20**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/06/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *93.9 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2549107 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *86.6 %* | *70-130* | *12/05/25* | *12/06/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2549109 |
| Diesel Range Organics (C10-C28) | **115** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **150** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *95.2 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2549101 |
| Chloride | **1130** | 20.0 | 1 | 12/05/25 | 12/06/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS24-0.5'**

**E512049-21**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2549104 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/08/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *12/05/25* | *12/08/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2549104 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/08/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *112 %* | *70-130* | *12/05/25* | *12/08/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2549112 |
| Diesel Range Organics (C10-C28) | **38.0** | 25.0 | 1 | 12/05/25 | 12/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/05/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *12/05/25* | *12/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2549106 |
| Chloride | **703** | 20.0 | 1 | 12/05/25 | 12/06/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS25-0.5'**

**E512049-22**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2549104 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/08/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *12/05/25* | *12/08/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2549104 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/08/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/05/25* | *12/08/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2549112 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/05/25 | 12/05/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/05/25 | 12/05/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *12/05/25* | *12/05/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2549106 |
| Chloride | **437** | 20.0 | 1 | 12/05/25 | 12/06/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

**FS37-0.5'**

**E512049-23**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2549104 |
| Benzene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| Toluene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/05/25 | 12/08/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/05/25 | 12/08/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *12/05/25* | *12/08/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2549104 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/05/25 | 12/08/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *110 %* | *70-130* | *12/05/25* | *12/08/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2549112 |
| Diesel Range Organics (C10-C28) | **80.9** | 25.0 | 1 | 12/05/25 | 12/06/25 | |
| Oil Range Organics (C28-C36) | **83.7** | 50.0 | 1 | 12/05/25 | 12/06/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/05/25* | *12/06/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2549106 |
| Chloride | **8560** | 200 | 10 | 12/05/25 | 12/06/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549104-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.19* | | *8.00* | | *89.8* | *70-130* | | | |
| **LCS (2549104-BS1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Benzene | 4.68 | 0.0250 | 5.00 | | 93.6 | 70-130 | | | |
| Ethylbenzene | 4.46 | 0.0250 | 5.00 | | 89.2 | 70-130 | | | |
| Toluene | 4.62 | 0.0250 | 5.00 | | 92.4 | 70-130 | | | |
| o-Xylene | 4.49 | 0.0250 | 5.00 | | 89.8 | 70-130 | | | |
| p,m-Xylene | 9.12 | 0.0500 | 10.0 | | 91.2 | 70-130 | | | |
| Total Xylenes | 13.6 | 0.0250 | 15.0 | | 90.7 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.84* | | *8.00* | | *98.0* | *70-130* | | | |
| **Matrix Spike (2549104-MS1)** | | | | **Source: E512045-04** | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Benzene | 5.00 | 0.0250 | 5.00 | ND | 100 | 70-130 | | | |
| Ethylbenzene | 4.74 | 0.0250 | 5.00 | ND | 94.7 | 70-130 | | | |
| Toluene | 4.92 | 0.0250 | 5.00 | ND | 98.4 | 70-130 | | | |
| o-Xylene | 4.78 | 0.0250 | 5.00 | ND | 95.7 | 70-130 | | | |
| p,m-Xylene | 9.68 | 0.0500 | 10.0 | ND | 96.8 | 70-130 | | | |
| Total Xylenes | 14.5 | 0.0250 | 15.0 | ND | 96.4 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.92* | | *8.00* | | *99.0* | *70-130* | | | |
| **Matrix Spike Dup (2549104-MSD1)** | | | | **Source: E512045-04** | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Benzene | 4.80 | 0.0250 | 5.00 | ND | 95.9 | 70-130 | 4.22 | 27 | |
| Ethylbenzene | 4.57 | 0.0250 | 5.00 | ND | 91.3 | 70-130 | 3.66 | 26 | |
| Toluene | 4.73 | 0.0250 | 5.00 | ND | 94.7 | 70-130 | 3.89 | 20 | |
| o-Xylene | 4.61 | 0.0250 | 5.00 | ND | 92.1 | 70-130 | 3.79 | 25 | |
| p,m-Xylene | 9.34 | 0.0500 | 10.0 | ND | 93.4 | 70-130 | 3.63 | 23 | |
| Total Xylenes | 13.9 | 0.0250 | 15.0 | ND | 93.0 | 70-130 | 3.68 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.89* | | *8.00* | | *98.6* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Volatile Organics by EPA 8021B

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549107-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.38* | | *8.00* | | *92.2* | *70-130* | | | |
| **LCS (2549107-BS1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Benzene | 5.09 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| Ethylbenzene | 4.75 | 0.0250 | 5.00 | | 94.9 | 70-130 | | | |
| Toluene | 4.94 | 0.0250 | 5.00 | | 98.8 | 70-130 | | | |
| o-Xylene | 4.83 | 0.0250 | 5.00 | | 96.6 | 70-130 | | | |
| p,m-Xylene | 9.65 | 0.0500 | 10.0 | | 96.5 | 70-130 | | | |
| Total Xylenes | 14.5 | 0.0250 | 15.0 | | 96.6 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.36* | | *8.00* | | *92.0* | *70-130* | | | |
| **Matrix Spike (2549107-MS1)** | | | | **Source: E512049-06** | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Benzene | 5.24 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| Ethylbenzene | 4.89 | 0.0250 | 5.00 | ND | 97.7 | 70-130 | | | |
| Toluene | 5.08 | 0.0250 | 5.00 | ND | 102 | 70-130 | | | |
| o-Xylene | 4.97 | 0.0250 | 5.00 | ND | 99.5 | 70-130 | | | |
| p,m-Xylene | 9.92 | 0.0500 | 10.0 | ND | 99.2 | 70-130 | | | |
| Total Xylenes | 14.9 | 0.0250 | 15.0 | ND | 99.3 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.19* | | *8.00* | | *89.8* | *70-130* | | | |
| **Matrix Spike Dup (2549107-MSD1)** | | | | **Source: E512049-06** | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Benzene | 4.91 | 0.0250 | 5.00 | ND | 98.2 | 70-130 | 6.45 | 27 | |
| Ethylbenzene | 4.57 | 0.0250 | 5.00 | ND | 91.3 | 70-130 | 6.78 | 26 | |
| Toluene | 4.75 | 0.0250 | 5.00 | ND | 95.1 | 70-130 | 6.65 | 20 | |
| o-Xylene | 4.65 | 0.0250 | 5.00 | ND | 93.1 | 70-130 | 6.68 | 25 | |
| p,m-Xylene | 9.29 | 0.0500 | 10.0 | ND | 92.9 | 70-130 | 6.59 | 23 | |
| Total Xylenes | 13.9 | 0.0250 | 15.0 | ND | 92.9 | 70-130 | 6.62 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.58* | | *8.00* | | *94.8* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549104-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.19* | | *8.00* | | *115* | *70-130* | | | |
| **LCS (2549104-BS2)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Gasoline Range Organics (C6-C10) | 49.3 | 20.0 | 50.0 | | 98.7 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.09* | | *8.00* | | *114* | *70-130* | | | |
| **Matrix Spike (2549104-MS2)** | | | | **Source: E512045-04** | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Gasoline Range Organics (C6-C10) | 50.0 | 20.0 | 50.0 | ND | 100 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.09* | | *8.00* | | *114* | *70-130* | | | |
| **Matrix Spike Dup (2549104-MSD2)** | | | | **Source: E512045-04** | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Gasoline Range Organics (C6-C10) | 51.8 | 20.0 | 50.0 | ND | 104 | 70-130 | 3.46 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.93* | | *8.00* | | *112* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549107-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.90* | | *8.00* | | *86.2* | *70-130* | | | |
| **LCS (2549107-BS2)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Gasoline Range Organics (C6-C10) | 47.2 | 20.0 | 50.0 | | 94.4 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.95* | | *8.00* | | *86.8* | *70-130* | | | |
| **Matrix Spike (2549107-MS2)** | | | | **Source: E512049-06** | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Gasoline Range Organics (C6-C10) | 48.1 | 20.0 | 50.0 | ND | 96.2 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.98* | | *8.00* | | *87.3* | *70-130* | | | |
| **Matrix Spike Dup (2549107-MSD2)** | | | | **Source: E512049-06** | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Gasoline Range Organics (C6-C10) | 49.3 | 20.0 | 50.0 | ND | 98.6 | 70-130 | 2.50 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.14* | | *8.00* | | *89.2* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549109-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *45.4* | | *50.0* | | *90.8* | *61-141* | | | |
| **LCS (2549109-BS1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Diesel Range Organics (C10-C28) | 244 | 25.0 | 250 | | 97.4 | 66-144 | | | |
| *Surrogate: n-Nonane* | *48.8* | | *50.0* | | *97.5* | *61-141* | | | |
| **Matrix Spike (2549109-MS1)** | | | | **Source: E512049-05** | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Diesel Range Organics (C10-C28) | 255 | 25.0 | 250 | ND | 102 | 56-156 | | | |
| *Surrogate: n-Nonane* | *47.7* | | *50.0* | | *95.4* | *61-141* | | | |
| **Matrix Spike Dup (2549109-MSD1)** | | | | **Source: E512049-05** | | | | | Prepared: 12/05/25 Analyzed: 12/06/25 |
| Diesel Range Organics (C10-C28) | 262 | 25.0 | 250 | ND | 105 | 56-156 | 2.75 | 20 | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.1* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549112-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *48.5* | | *50.0* | | *97.1* | *61-141* | | | |
| **LCS (2549112-BS1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Diesel Range Organics (C10-C28) | 256 | 25.0 | 250 | | 102 | 66-144 | | | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.1* | *61-141* | | | |
| **Matrix Spike (2549112-MS1)** | | | | **Source: E512044-01** | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Diesel Range Organics (C10-C28) | 277 | 25.0 | 250 | ND | 111 | 56-156 | | | |
| *Surrogate: n-Nonane* | *51.0* | | *50.0* | | *102* | *61-141* | | | |
| **Matrix Spike Dup (2549112-MSD1)** | | | | **Source: E512044-01** | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Diesel Range Organics (C10-C28) | 286 | 25.0 | 250 | ND | 114 | 56-156 | 3.08 | 20 | |
| *Surrogate: n-Nonane* | *53.0* | | *50.0* | | *106* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Anions by EPA 300.0/9056A

Analyst: TP

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549101-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2549101-BS1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Chloride | 258 | 20.0 | 250 | | 103 | 90-110 | | | |
| **Matrix Spike (2549101-MS1)** | | | | **Source: E512049-03** | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Chloride | 3780 | 40.0 | 250 | 3730 | 21.4 | 80-120 | | | M4 |
| **Matrix Spike Dup (2549101-MSD1)** | | | | **Source: E512049-03** | | | | | Prepared: 12/05/25 Analyzed: 12/08/25 |
| Chloride | 4180 | 40.0 | 250 | 3730 | 179 | 80-120 | 9.92 | 20 | M4 |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:50:33PM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2549106-BLK1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2549106-BS1)** | | | | | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Chloride | 256 | 20.0 | 250 | | 103 | 90-110 | | | |
| **Matrix Spike (2549106-MS1)** | | | | **Source: E512045-03** | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Chloride | 304 | 20.0 | 250 | 40.7 | 105 | 80-120 | | | |
| **Matrix Spike Dup (2549106-MSD1)** | | | | **Source: E512045-03** | | | | | Prepared: 12/05/25 Analyzed: 12/05/25 |
| Chloride | 305 | 20.0 | 250 | 40.7 | 106 | 80-120 | 0.148 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/25 12:50 |

| | |
|---|---|
| M4 | Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E5112049 | Job Number 23003-0002 | 1D 2D 3D Std: x | NM CO UT TX: x |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:38 | 12/3/2025 | Soil | 1 | FS01 - 0.5' | | 1 | | | | | | | | | x | | | 3.1 | |
| 9:39 | 12/3/2025 | Soil | 1 | FS02 - 0.5' | | 2 | | | | | | | | | X | | | 3.7 | |
| 9:40 | 12/3/2025 | Soil | 1 | FS03 - 0.5' | | 3 | | | | | | | | | X | | | 4.0 | |
| 9:41 | 12/3/2025 | Soil | 1 | FS04 - 0.5' | | 4 | | | | | | | | | X | | | 4.0 | |
| 9:42 | 12/3/2025 | Soil | 1 | FS05 - 0.5' | | 5 | | | | | | | | | X | | | 4.0 | |
| 9:43 | 12/3/2025 | Soil | 1 | FS06 - 0.5' | | 6 | | | | | | | | | X | | | 4.2 | |
| 9:44 | 12/3/2025 | Soil | 1 | FS07 - 0.5' | | 7 | | | | | | | | | X | | | 3.3 | |
| 9:47 | 12/3/2025 | Soil | 1 | FS10 - 0.5' | | 8 | | | | | | | | | X | | | 4.7 | |
| 9:48 | 12/3/2025 | Soil | 1 | FS11 - 0.5' | | 9 | | | | | | | | | X | | | 2.8 | |
| 9:49 | 12/3/2025 | Soil | 1 | FS12 - 0.5' | | 10 | | | | | | | | | X | | | 4.1 | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Israel Estrella

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12/4/25 | 7-11 | Michelle Gonzales | 12.4.25 | 0711 |
| Michelle Gonzales | 12-4-25 | 1530 | Nathan Gonzales | 12-4-25 | 1530 |
| Nathan Gonzales | 12-4-25 | 2000 | Camden Briggs | 12.4.25 | 2000 |
| Camden Briggs | 12-5-25 | 0000 | Caitlin Mars | 12.5.25 | 730 |
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Lab Use Only
Received on ice: (Y)/N

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512049 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23C03-0002 | | x |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | x | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:56 | 12/3/2025 | Soil | 1 | FS13 - 0.5' | | 11 | | | | | | | | | x | | | 5.0 | |
| 9:51 | 12/3/2025 | Soil | 1 | FS14 - 0.5' | | 12 | | | | | | | | | X | | | 4.7 | |
| 9:52 | 12/3/2025 | Soil | 1 | FS15 - 0.5' | | 13 | | | | | | | | | X | | | 4.7 | |
| 12:10 | 12/3/2025 | Soil | 1 | FS16 - 0.5' | | 14 | | | | | | | | | X | | | 4.2 | |
| 12:13 | 12/3/2025 | Soil | 1 | FS18 - 0.5' | | 15 | | | | | | | | | X | | | 4.7 | |
| 9:56 | 12/3/2025 | Soil | 1 | FS19 - 0.5' | | 16 | | | | | | | | | X | | | 4.5 | |
| 9:57 | 12/3/2025 | Soil | 1 | FS20 - 0.5' | | 17 | | | | | | | | | X | | | 3.1 | |
| 9:58 | 12/3/2025 | Soil | 1 | FS21 - 0.5' | | 18 | | | | | | | | | X | | | 4.7 | |
| 9:59 | 12/3/2025 | Soil | 1 | FS22 - 0.5' | | 19 | | | | | | | | | X | | | 4.4 | |
| 10:00 | 12/3/2025 | Soil | 1 | FS23 - 0.5' | | 20 | | | | | | | | | X | | | 5.2 | |

**Analysis and Method**

**EPA Program**

SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com

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Sampled by: Israel Estrella

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|---|---|---|---|---|---|
| | 12/4/25 | 7:11 | Michelle Gonzales | 12-4-25 | 0711 |
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Lab Use Only

Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512049 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23003-0002 | x | x |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | BGDOC - NM | BGDOC - TX | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:01 | 12/3/2025 | Soil | 1 | FS24 - 0.5' | | 21 | | | | | | | | x | | 3.1 | |
| 10:02 | 12/3/2025 | Soil | 1 | FS25 - 0.5' | | 22 | | | | | | | | X | | 3.7 | |
| 12:14 | 12/3/2025 | Soil | 1 | FS26 - 0.5' | | 23 | | | | | | | | X | | 4.0 | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com

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Sampled by: Israel Estrella

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 12/4/25 | 7:11 | Michelle Gonzales | 12-4-25 | 0711 |
| Michelle Gonzales | 12-4-25 | 1530 | Nathan Gonzales | 12-4-25 | 1580 |
| Nathan Gonzales | 12-4-25 | 2000 | Camden Briggs | 12-4-25 | 2000 |
| Camden Briggs | 12.5-25 | 0000 | Caitlin Mason | 12.5.25 | 730 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

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# Envirotech Analytical Laboratory

Printed: 12/5/2025 10:42:50AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/05/25 07:30 | Work Order ID: | E512049 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/04/25 17:27 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 12/11/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

L-CM
R-DT

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512049 | 1D 2D 3D Std: x | NM CO UT TX: x |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23003-0052 | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

Analysis and Method: GRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - Tx | RCRA 8 Metals | | 8015C: NM | 8015C: Tx | |

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

## Sample Information

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | Sample Temp | Remarks |
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| 9:43 | 12/3/2025 | Soil | 1 | FS06 - 0.5' | | 6 | x | 4.2 |
| 9:44 | 12/3/2025 | Soil | 1 | FS07 - 0.5' | | 7 | x | 3.3 |
| 9:47 | 12/3/2025 | Soil | 1 | FS10 - 0.5' | | 8 | x | 4.7 |
| 9:48 | 12/3/2025 | Soil | 1 | FS11 - 0.5' | | 9 | x | 2.8 |
| 9:49 | 12/3/2025 | Soil | 1 | FS12 - 0.5' | | 10 | x | 4.7 |

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com
Corrected sample name per Client. 12/16/25 CM

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|---|---|---|---|---|---|
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| Michelle Gonzales | 12-4-25 | 1530 | Nathan Gonzales | 12-4-25 | 1530 |
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Received on ice: (Y)/N

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envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512049 | 1D: | NM: X |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | Job Number 23003-0002 | 2D: | CO: |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | 3D: | UT: |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | Std: X | TX: |
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| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

| EPA Program | | | |
|---|---|---|---|
| SDWA | CWA | RCRA | |
| Compliance | Y | or | N |
| PWSID # | | | |

## Sample Information

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | GRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
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Corrected sample name per Client. 12/16/25 CM

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Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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envirotech
Analytical Laboratory

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| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | 8500C - NM | 8500C - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com

Corrected sample name per Client 12/16/25 CM

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Israel Estrella

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 12/4/25 | 7:11 | Michelle Gonzales | 12-4-25 | 0711 |
| Michelle Gonzales | 12-4-25 | 1536 | Nathan Gonzales | 12-4-25 | 1550 |
| Nathan Gonzales | 12-4-25 | 2000 | Camden Briggs | 12-4-25 | 2000 |
| Camden Briggs | 12.5.25 | 0000 | [signature] | 12.5.25 | 430 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 SWD |
| Work Order: | E512059 |
| Job Number: | 23003-0002 |
| Received: | 12/8/2025 |

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/16/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/16/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001 SWD
Workorder: E512059
Date Received: 12/8/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2025 7:00:00AM, under the Project Name: Marbob State #001 SWD.

The analytical test results summarized in this report with the Project Name: Marbob State #001 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/25 12:39 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SS02A-0' | E512059-01A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| SS02B-0' | E512059-02A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| SS03A-0' | E512059-03A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| SS03B-0' | E512059-04A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| SS03C-0' | E512059-05A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| SS04A-0' | E512059-06A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| SS04B-0' | E512059-07A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| SS04C-0' | E512059-08A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| FS08-.5' | E512059-09A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| FS09-.5' | E512059-10A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| FS38-.5' | E512059-11A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |
| FS17-.5' | E512059-12A | Solid | 12/04/25 | 12/08/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS02A-0'**

**E512059-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *115 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/08/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/08/25 | |
| *Surrogate: n-Nonane* | | *92.6 %* | *61-141* | *12/08/25* | *12/08/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **1680** | 40.0 | 2 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS02B-0'**

**E512059-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/08/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/08/25 | |
| *Surrogate: n-Nonane* | | *99.1 %* | *61-141* | *12/08/25* | *12/08/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **3900** | 40.0 | 2 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS03A-0'**

**E512059-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/08/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/08/25 | |
| *Surrogate: n-Nonane* | | *93.3 %* | *61-141* | *12/08/25* | *12/08/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **24.2** | 20.0 | 1 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS03B-0'**

**E512059-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.7 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | **192** | 25.0 | 1 | 12/08/25 | 12/08/25 | |
| Oil Range Organics (C28-C36) | **287** | 50.0 | 1 | 12/08/25 | 12/08/25 | |
| *Surrogate: n-Nonane* | | *93.9 %* | *61-141* | *12/08/25* | *12/08/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **546** | 20.0 | 1 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS03C-0'**

**E512059-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *100 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *116 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | **30.1** | 25.0 | 1 | 12/08/25 | 12/08/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/08/25 | |
| *Surrogate: n-Nonane* | | *92.5 %* | *61-141* | *12/08/25* | *12/08/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **105** | 20.0 | 1 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS04A-0'**

**E512059-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *102 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/08/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/08/25 | |
| *Surrogate: n-Nonane* | | *95.0 %* | *61-141* | *12/08/25* | *12/08/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **1050** | 20.0 | 1 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS04B-0'**

**E512059-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/08/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/08/25 | |
| *Surrogate: n-Nonane* | | *93.9 %* | *61-141* | *12/08/25* | *12/08/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **1110** | 20.0 | 1 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**SS04C-0'**

**E512059-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.5 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/09/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: n-Nonane* | | *98.0 %* | *61-141* | *12/08/25* | *12/09/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **735** | 20.0 | 1 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**FS08-.5'**

**E512059-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *114 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/09/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/08/25* | *12/09/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **2030** | 40.0 | 2 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**FS09-.5'**

**E512059-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.1 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *115 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/09/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/08/25* | *12/09/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **4980** | 100 | 5 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**FS38-.5'**

**E512059-11**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *101 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *115 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | **41.5** | 25.0 | 1 | 12/08/25 | 12/09/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: n-Nonane* | | *97.8 %* | *61-141* | *12/08/25* | *12/09/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **4000** | 40.0 | 2 | 12/08/25 | 12/08/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

**FS17-.5'**

**E512059-12**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Benzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| Toluene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/08/25 | 12/09/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *99.2 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550005 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *115 %* | *70-130* | *12/08/25* | *12/09/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/08/25 | 12/09/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/08/25 | 12/09/25 | |
| *Surrogate: n-Nonane* | | *96.7 %* | *61-141* | *12/08/25* | *12/09/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550002 |
| Chloride | **6230** | 100 | 5 | 12/08/25 | 12/08/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

## Volatile Organics by EPA 8021B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550005-BLK1)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.08* | | *8.00* | | *101* | *70-130* | | | |
| **LCS (2550005-BS1)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Benzene | 4.63 | 0.0250 | 5.00 | | 92.6 | 70-130 | | | |
| Ethylbenzene | 4.43 | 0.0250 | 5.00 | | 88.6 | 70-130 | | | |
| Toluene | 4.58 | 0.0250 | 5.00 | | 91.7 | 70-130 | | | |
| o-Xylene | 4.50 | 0.0250 | 5.00 | | 89.9 | 70-130 | | | |
| p,m-Xylene | 9.06 | 0.0500 | 10.0 | | 90.6 | 70-130 | | | |
| Total Xylenes | 13.6 | 0.0250 | 15.0 | | 90.4 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.18* | | *8.00* | | *102* | *70-130* | | | |
| **Matrix Spike (2550005-MS1)** | | | | **Source: E512059-03** | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Benzene | 4.70 | 0.0250 | 5.00 | ND | 94.0 | 70-130 | | | |
| Ethylbenzene | 4.51 | 0.0250 | 5.00 | ND | 90.2 | 70-130 | | | |
| Toluene | 4.66 | 0.0250 | 5.00 | ND | 93.3 | 70-130 | | | |
| o-Xylene | 4.59 | 0.0250 | 5.00 | ND | 91.7 | 70-130 | | | |
| p,m-Xylene | 9.23 | 0.0500 | 10.0 | ND | 92.3 | 70-130 | | | |
| Total Xylenes | 13.8 | 0.0250 | 15.0 | ND | 92.1 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.22* | | *8.00* | | *103* | *70-130* | | | |
| **Matrix Spike Dup (2550005-MSD1)** | | | | **Source: E512059-03** | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Benzene | 4.47 | 0.0250 | 5.00 | ND | 89.5 | 70-130 | 4.94 | 27 | |
| Ethylbenzene | 4.30 | 0.0250 | 5.00 | ND | 86.0 | 70-130 | 4.84 | 26 | |
| Toluene | 4.44 | 0.0250 | 5.00 | ND | 88.8 | 70-130 | 4.98 | 20 | |
| o-Xylene | 4.39 | 0.0250 | 5.00 | ND | 87.8 | 70-130 | 4.33 | 25 | |
| p,m-Xylene | 8.80 | 0.0500 | 10.0 | ND | 88.0 | 70-130 | 4.78 | 23 | |
| Total Xylenes | 13.2 | 0.0250 | 15.0 | ND | 88.0 | 70-130 | 4.63 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.20* | | *8.00* | | *102* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550005-BLK1)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.38* | | *8.00* | | *117* | *70-130* | | | |
| **LCS (2550005-BS2)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | 45.9 | 20.0 | 50.0 | | 91.9 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.27* | | *8.00* | | *116* | *70-130* | | | |
| **Matrix Spike (2550005-MS2)** | | | | **Source: E512059-03** | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | 47.0 | 20.0 | 50.0 | ND | 94.0 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *9.26* | | *8.00* | | *116* | *70-130* | | | |
| **Matrix Spike Dup (2550005-MSD2)** | | | | **Source: E512059-03** | | | | | Prepared: 12/08/25 Analyzed: 12/09/25 |
| Gasoline Range Organics (C6-C10) | 46.6 | 20.0 | 50.0 | ND | 93.3 | 70-130 | 0.816 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *8.98* | | *8.00* | | *112* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550013-BLK1)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *45.1* | | *50.0* | | *90.1* | *61-141* | | | |
| **LCS (2550013-BS1)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Diesel Range Organics (C10-C28) | 235 | 25.0 | 250 | | 94.0 | 66-144 | | | |
| *Surrogate: n-Nonane* | *47.0* | | *50.0* | | *94.0* | *61-141* | | | |
| **Matrix Spike (2550013-MS1)** | | | | **Source: E512059-12** | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Diesel Range Organics (C10-C28) | 244 | 25.0 | 250 | ND | 97.4 | 56-156 | | | |
| *Surrogate: n-Nonane* | *46.4* | | *50.0* | | *92.9* | *61-141* | | | |
| **Matrix Spike Dup (2550013-MSD1)** | | | | **Source: E512059-12** | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Diesel Range Organics (C10-C28) | 239 | 25.0 | 250 | ND | 95.6 | 56-156 | 1.85 | 20 | |
| *Surrogate: n-Nonane* | *47.0* | | *50.0* | | *94.1* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 12:39:45PM |

## Anions by EPA 300.0/9056A

Analyst: TP

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550002-BLK1)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2550002-BS1)** | | | | | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Chloride | 250 | 20.0 | 250 | | 100 | 90-110 | | | |
| **Matrix Spike (2550002-MS1)** | | | | **Source: E512056-04** | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Chloride | 618 | 20.0 | 250 | 363 | 102 | 80-120 | | | |
| **Matrix Spike Dup (2550002-MSD1)** | | | | **Source: E512056-04** | | | | | Prepared: 12/08/25 Analyzed: 12/08/25 |
| Chloride | 628 | 20.0 | 250 | 363 | 106 | 80-120 | 1.47 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 SWD | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/25 12:39 |

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador | Company: Ensolum LLC | Lab WO# ES12059 | Job Number 23007-0002 | 1D 2D 3D Std: x | NM: X CO UT TX |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1303 | 12/04/25 | S | 1 | SS02A-0' | | 1 | | | | | | | | | X | | | 4.4 | |
| 1301 | 12/04/25 | S | 1 | SS02B-0' | | 2 | | | | | | | | | X | | | 3.6 | |
| 1310 | 12/04/25 | S | 1 | SS03A-0' | | 3 | | | | | | | | | X | | | 4.3 | |
| 1309 | 12/4/25 | S | 1 | SS03B-0' | | 4 | | | | | | | | | X | | | 4.5 | |
| 1306 | 12/4/25 | S | 1 | SS03C-0' | | 5 | | | | | | | | | X | | | 4.8 | |
| 1335 | 12/4/25 | S | 1 | SS04A-0' | | 6 | | | | | | | | | X | | | 4.3 | |
| 1338 | 12/4/25 | S | 1 | SS04B-0' | | 7 | | | | | | | | | X | | | 4.9 | |
| 1341 | 12/4/25 | S | 1 | SS04C-0' | | 8 | | | | | | | | | X | | | 4.3 | |
| 1025 | 12/4/25 | S | 1 | FS08-.5' | | 9 | | | | | | | | | X | | | 4.6 | |
| 1148 | 12/4/25 | S | 1 | FS09-.5' | | 10 | | | | | | | | | X | | | 4.7 | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance: Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Eric Plugge

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 12/5/25 | 0711 | Michelle Gonzales | ~~12-5-25~~ | 0711 |
| Michelle Gonzales | 12-5-25 | 1530 | Marissa Gonzales | 12-5-25 | 1530 |
| Marissa Gonzales | 12-5-25 | 2355 | Noe Sato | 12-8-25 | 0700 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only
Received on ice: (Y) / N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador | Company: Ensolum LLC | Lab WO# E512059 | Job Number 23003-0002 | 1D 2D 3D Std: x | NM X CO UT TX |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1018 | 12/04/25 | S | 1 | FS21-.5' | | 11 | | | | | | | | | X | | | 4.8 | |
| 1015 | 12/04/25 | S | 1 | FS17-.5' | | 12 | | | | | | | | | X | | | 4.3 | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

EPA Program: SDWA | CWA | RCRA
Compliance Y or N
PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, lestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Sampled by: Eric Plugge

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12/5/25 | 0711 | Michelle Gonzales | 12-5-25 | 0711 |
| Michelle Gonzales | 12-5-25 | 1530 | Marissa Gonzales | 12-5-25 | 1530 |
| Marissa Gonzales | 12-5-25 | 2355 | Joe Sato | 12-8-25 | 0700 |
| | | | | | |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only
Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Page 401 of 617

# Envirotech Analytical Laboratory

Printed: 12/8/2025 8:35:51AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/08/25 07:00 | Work Order ID: | E512059 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/05/25 16:46 | Logged In By: | Noe Soto |
| Email: | agiovengo@ensolum.com | Due Date: | 12/12/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

L-NS
R-NV

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador | Company: Ensolum LLC | Lab WO# E512059 | Job Number 23003-0002 | 1D 2D 3D Std: x | NM CO UT TX: X |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | | TCLP 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1303 | 12/04/25 | S | 1 | SS02A-0' | | 1 | | | | | | | | | X | | | 4.4 | |
| 1301 | 12/04/25 | S | 1 | SS02B-0' | | 2 | | | | | | | | | X | | | 3.6 | |
| 1310 | 12/04/25 | S | 1 | SS03A-0' | | 3 | | | | | | | | | X | | | 4.3 | |
| 1309 | 12/4/25 | S | 1 | SS03B-0' | | 4 | | | | | | | | | X | | | 4.5 | |
| 1306 | 12/4/25 | S | 1 | SS03C-0' | | 5 | | | | | | | | | X | | | 4.8 | |
| 1335 | 12/4/25 | S | 1 | SS04A-0' | | 6 | | | | | | | | | X | | | 4.3 | |
| 1338 | 12/4/25 | S | 1 | SS04B-0' | | 7 | | | | | | | | | X | | | 4.9 | |
| 1341 | 12/4/25 | S | 1 | SS04C-0' | | 8 | | | | | | | | | X | | | 4.3 | |
| 1025 | 12/4/25 | S | 1 | FS08-.5' | | 9 | | | | | | | | | X | | | 4.6 | |
| 1148 | 12/4/25 | S | 1 | FS09-.5' | | 10 | | | | | | | | | X | | | 4.7 | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmolr@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Eric Plugge

Corrected sample name per Client 12/16/25 CM

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12/5/25 | 0711 | Michelle Gonzales | ~~12-5-25~~ | 0711 |
| Michelle Gonzales | 12-5-25 | 1530 | Marissa Gonzales | 12-5-25 | 1530 |
| Marissa Gonzales | 12-5-25 | 2355 | Nae Sat | 12-8-25 | 0700 |
| | | | | | |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador | Company: Ensolum LLC | Lab WO# E512059 | Job Number 23003-0002 | 1D 2D 3D Std: x | NM CO UT TX: X |
| Project Name: Marbob State #001 SWD | Address: 3122 National Parks Hwy | | | |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | | TCLP 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1018 | 12/04/25 | S | 1 | ~~FS27-5~~ FS38-5' | | 11 | | | | | | | | | X | | | 4.8 | |
| 1015 | 12/04/25 | S | 1 | FS17-5' | | 12 | | | | | | | | | X | | | 4.3 | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com
Corrected sample name per client 12/16/25 EM

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Eric Plugge

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 12/5/25 | 0711 | Michelle Gonzales | 12-5-25 | 0711 |
| Michelle Gonzales | 12-5-25 | 1530 | Marissa Gonzales | 12-5-25 | 1530 |
| Marissa Gonzales | 12-5-25 | 2355 | Nor Soto | 12-8-25 | 0700 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

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Received on ice: (Y) N

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Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 |
| Work Order: | E512078 |
| Job Number: | 23003-0002 |
| Received: | 12/9/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/15/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001
Workorder: E512078
Date Received: 12/9/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2025 8:00:00AM, under the Project Name: Marbob State #001.

The analytical test results summarized in this report with the Project Name: Marbob State #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

**Michelle Gonzales**
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 08:31 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SP01 | E512078-01A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP02 | E512078-02A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP03 | E512078-03A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP04 | E512078-04A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP05 | E512078-05A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP06 | E512078-06A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP07 | E512078-07A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP08 | E512078-08A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |
| SP09 | E512078-09A | Soil | 12/05/25 | 12/09/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP01**

**E512078-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *99.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **105** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP02**

**E512078-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.9 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.2 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *87.2 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.9 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.2 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *87.2 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *99.7 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **101** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP03**

**E512078-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *105 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.3 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *109 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *105 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.3 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *109 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *100 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **126** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP04**

**E512078-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *97.2 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *99.6 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *97.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *97.2 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *99.6 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *97.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *100 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **21.2** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

## SP05

## E512078-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *102 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *100 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *102 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *100 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *98.6 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **242** | 20.0 | 1 | 12/10/25 | 12/10/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP06**

**E512078-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.7 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.3 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *113 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.7 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.3 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *113 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *100 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **134** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP07**

**E512078-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *94.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *94.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **259** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP08**

**E512078-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *96.1 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *99.7 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *96.1 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *99.7 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **31.4** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

**SP09**

**E512078-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Benzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| Toluene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/09/25 | 12/10/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *90.7 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550040 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/09/25 | 12/10/25 | |
| *Surrogate: Bromofluorobenzene* | | *101 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.4 %* | *70-130* | *12/09/25* | *12/10/25* | |
| *Surrogate: Toluene-d8* | | *90.7 %* | *70-130* | *12/09/25* | *12/10/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550073 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/11/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/11/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/11/25* | *12/11/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550064 |
| Chloride | **28.4** | 20.0 | 1 | 12/10/25 | 12/11/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550040-BLK1)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: Bromofluorobenzene* | *0.525* | | *0.500* | | *105* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.509* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.535* | | *0.500* | | *107* | *70-130* | | | |
| **LCS (2550040-BS1)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Benzene | 2.72 | 0.0250 | 2.50 | | 109 | 70-130 | | | |
| Ethylbenzene | 2.65 | 0.0250 | 2.50 | | 106 | 70-130 | | | |
| Toluene | 2.58 | 0.0250 | 2.50 | | 103 | 70-130 | | | |
| o-Xylene | 2.63 | 0.0250 | 2.50 | | 105 | 70-130 | | | |
| p,m-Xylene | 5.36 | 0.0500 | 5.00 | | 107 | 70-130 | | | |
| Total Xylenes | 7.98 | 0.0250 | 7.50 | | 106 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.506* | | *0.500* | | *101* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.534* | | *0.500* | | *107* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.500* | | *0.500* | | *100* | *70-130* | | | |
| **Matrix Spike (2550040-MS1)** | | | | **Source: E512078-06** | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Benzene | 2.36 | 0.0250 | 2.50 | ND | 94.3 | 48-131 | | | |
| Ethylbenzene | 2.63 | 0.0250 | 2.50 | ND | 105 | 45-135 | | | |
| Toluene | 2.34 | 0.0250 | 2.50 | ND | 93.6 | 48-130 | | | |
| o-Xylene | 2.53 | 0.0250 | 2.50 | ND | 101 | 43-135 | | | |
| p,m-Xylene | 4.98 | 0.0500 | 5.00 | ND | 99.6 | 43-135 | | | |
| Total Xylenes | 7.51 | 0.0250 | 7.50 | ND | 100 | 43-135 | | | |
| *Surrogate: Bromofluorobenzene* | *0.510* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.504* | | *0.500* | | *101* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.471* | | *0.500* | | *94.2* | *70-130* | | | |
| **Matrix Spike Dup (2550040-MSD1)** | | | | **Source: E512078-06** | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Benzene | 2.33 | 0.0250 | 2.50 | ND | 93.2 | 48-131 | 1.15 | 23 | |
| Ethylbenzene | 2.50 | 0.0250 | 2.50 | ND | 99.9 | 45-135 | 5.07 | 27 | |
| Toluene | 2.32 | 0.0250 | 2.50 | ND | 92.9 | 48-130 | 0.794 | 24 | |
| o-Xylene | 2.24 | 0.0250 | 2.50 | ND | 89.6 | 43-135 | 12.2 | 27 | |
| p,m-Xylene | 4.47 | 0.0500 | 5.00 | ND | 89.3 | 43-135 | 10.9 | 27 | |
| Total Xylenes | 6.71 | 0.0250 | 7.50 | ND | 89.4 | 43-135 | 11.3 | 27 | |
| *Surrogate: Bromofluorobenzene* | *0.469* | | *0.500* | | *93.8* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.512* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.476* | | *0.500* | | *95.2* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550040-BLK1)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: Bromofluorobenzene* | *0.525* | | *0.500* | | *105* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.509* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.535* | | *0.500* | | *107* | *70-130* | | | |
| **LCS (2550040-BS2)** | | | | | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Gasoline Range Organics (C6-C10) | 48.7 | 20.0 | 50.0 | | 97.4 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.511* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.555* | | *0.500* | | *111* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.506* | | *0.500* | | *101* | *70-130* | | | |
| **Matrix Spike (2550040-MS2)** | | | | **Source: E512078-06** | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Gasoline Range Organics (C6-C10) | 46.1 | 20.0 | 50.0 | ND | 92.3 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.473* | | *0.500* | | *94.5* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.464* | | *0.500* | | *92.7* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.445* | | *0.500* | | *89.0* | *70-130* | | | |
| **Matrix Spike Dup (2550040-MSD2)** | | | | **Source: E512078-06** | | | | | Prepared: 12/09/25 Analyzed: 12/10/25 |
| Gasoline Range Organics (C6-C10) | 50.1 | 20.0 | 50.0 | ND | 100 | 70-130 | 8.21 | 20 | |
| *Surrogate: Bromofluorobenzene* | *0.533* | | *0.500* | | *107* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.512* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.552* | | *0.500* | | *110* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550073-BLK1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *49.4* | | *50.0* | | *98.7* | *61-141* | | | |
| **LCS (2550073-BS1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | 252 | 25.0 | 250 | | 101 | 66-144 | | | |
| *Surrogate: n-Nonane* | *48.4* | | *50.0* | | *96.8* | *61-141* | | | |
| **Matrix Spike (2550073-MS1)** | | | | **Source: E512078-03** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | 258 | 25.0 | 250 | ND | 103 | 56-156 | | | |
| *Surrogate: n-Nonane* | *49.3* | | *50.0* | | *98.6* | *61-141* | | | |
| **Matrix Spike Dup (2550073-MSD1)** | | | | **Source: E512078-03** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Diesel Range Organics (C10-C28) | 262 | 25.0 | 250 | ND | 105 | 56-156 | 1.48 | 20 | |
| *Surrogate: n-Nonane* | *50.6* | | *50.0* | | *101* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 8:31:21AM |

## Anions by EPA 300.0/9056A

Analyst: TP

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550064-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/10/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2550064-BS1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/10/25 |
| Chloride | 258 | 20.0 | 250 | | 103 | 90-110 | | | |
| **Matrix Spike (2550064-MS1)** | | | | **Source: E512078-05** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Chloride | 443 | 20.0 | 250 | 242 | 80.2 | 80-120 | | | |
| **Matrix Spike Dup (2550064-MSD1)** | | | | **Source: E512078-05** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Chloride | 397 | 20.0 | 250 | 242 | 62.0 | 80-120 | 10.8 | 20 | M2 |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 08:31 |

| | |
|---|---|
| M2 | Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512078 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23003-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1305 | 12/5/2025 | S | 1 | SP01 | | 1 | | | | | | | | | X | | | 4.9 | |
| 935 | 12/5/2025 | S | 1 | SP02 | | 2 | | | | | | | | | X | | | 4.5 | |
| 940 | 12/5/2025 | S | 1 | SP03 | | 3 | | | | | | | | | X | | | 4.3 | |
| 945 | 12/5/2025 | S | 1 | SP04 | | 4 | | | | | | | | | X | | | 4.0 | |
| 1308 | 12/5/2025 | S | 1 | SP05 | | 5 | | | | | | | | | X | | | 3.8 | |
| 955 | 12/5/2025 | S | 1 | SP06 | | 6 | | | | | | | | | X | | | 4.4 | |
| 1000 | 12/5/2025 | S | 1 | SP07 | | 7 | | | | | | | | | X | | | 4.2 | |
| 1005 | 12/5/2025 | S | 1 | SP08 | | 8 | | | | | | | | | X | | | 3.9 | |
| 1312 | 12/5/2025 | S | 1 | SP09 | | 9 | | | | | | | | | X | | | 4.3 | |
| | | | | | | | | | | | | | | | | | | | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12/8/25 | 0711 | Michelle Gonzales | 12-8-25 | 0711 |
| Michelle Gonzales | 12-8-25 | 1500 | Mathan Gonzales | 12-8-25 | 1500 |
| Mathan Gonzales | 12-8-25 | 1915 | Cassidy | 12-8-25 | 1920 |
| Cassidy | 12-8-25 | 2315 | Caitlyn Mar | 12.9.25 | 800 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 12/9/2025 10:08:17AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/09/25 08:00 | Work Order ID: | E512078 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/09/25 09:13 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 12/15/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

L-NS
R-CM

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

***Practical Solutions for a Better Tomorrow***

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 |
| Work Order: | E512095 |
| Job Number: | 23003-0002 |
| Received: | 12/10/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/15/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001
Workorder: E512095
Date Received: 12/10/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2025 8:00:00AM, under the Project Name: Marbob State #001.

The analytical test results summarized in this report with the Project Name: Marbob State #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

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Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 17:09 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| FS26-4' | E512095-01A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS27-4' | E512095-02A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS28-4' | E512095-03A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS29-4' | E512095-04A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS30-4' | E512095-05A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS31-4' | E512095-06A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS32-4' | E512095-07A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS33-4' | E512095-08A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS34-4' | E512095-09A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS35-4' | E512095-10A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| FS36-4' | E512095-11A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS26-4'**

**E512095-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *107 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.7 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **1530** | 40.0 | 2 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS27-4'**

**E512095-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *106 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.2 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **977** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

## FS28-4'

**E512095-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *108 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.8 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **307** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS29-4'**

**E512095-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *107 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *105 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **75.3** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS30-4'**

**E512095-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *108 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.8 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **23.9** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS31-4'**

**E512095-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *108 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *12/11/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **413** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS32-4'**

**E512095-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *107 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *12/11/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **661** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS33-4'**

**E512095-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *106 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *12/11/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **502** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS34-4'**

**E512095-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *106 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *84.8 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *12/11/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **187** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS35-4'**

**E512095-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *107 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.4 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *12/11/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **141** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

**FS36-4'**

**E512095-11**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *106 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.2 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550084 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/11/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/11/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/11/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550081 |
| Chloride | **58.2** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

## Volatile Organics by EPA 8021B

Analyst: MB

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550057-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.22* | | *8.00* | | *103* | *70-130* | | | |
| **LCS (2550057-BS1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 4.97 | 0.0250 | 5.00 | | 99.4 | 70-130 | | | |
| Ethylbenzene | 4.78 | 0.0250 | 5.00 | | 95.6 | 70-130 | | | |
| Toluene | 4.91 | 0.0250 | 5.00 | | 98.1 | 70-130 | | | |
| o-Xylene | 4.86 | 0.0250 | 5.00 | | 97.2 | 70-130 | | | |
| p,m-Xylene | 9.77 | 0.0500 | 10.0 | | 97.7 | 70-130 | | | |
| Total Xylenes | 14.6 | 0.0250 | 15.0 | | 97.6 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.47* | | *8.00* | | *106* | *70-130* | | | |
| **Matrix Spike (2550057-MS1)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 5.41 | 0.0250 | 5.00 | ND | 108 | 70-130 | | | |
| Ethylbenzene | 5.21 | 0.0250 | 5.00 | ND | 104 | 70-130 | | | |
| Toluene | 5.33 | 0.0250 | 5.00 | ND | 107 | 70-130 | | | |
| o-Xylene | 5.25 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| p,m-Xylene | 10.6 | 0.0500 | 10.0 | ND | 106 | 70-130 | | | |
| Total Xylenes | 15.9 | 0.0250 | 15.0 | ND | 106 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.58* | | *8.00* | | *107* | *70-130* | | | |
| **Matrix Spike Dup (2550057-MSD1)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 5.52 | 0.0250 | 5.00 | ND | 110 | 70-130 | 2.01 | 27 | |
| Ethylbenzene | 5.31 | 0.0250 | 5.00 | ND | 106 | 70-130 | 1.90 | 26 | |
| Toluene | 5.43 | 0.0250 | 5.00 | ND | 109 | 70-130 | 1.91 | 20 | |
| o-Xylene | 5.36 | 0.0250 | 5.00 | ND | 107 | 70-130 | 2.11 | 25 | |
| p,m-Xylene | 10.8 | 0.0500 | 10.0 | ND | 108 | 70-130 | 1.98 | 23 | |
| Total Xylenes | 16.2 | 0.0250 | 15.0 | ND | 108 | 70-130 | 2.03 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.52* | | *8.00* | | *107* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: MB

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550057-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.88* | | *8.00* | | *86.0* | *70-130* | | | |
| **LCS (2550057-BS2)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 50.8 | 20.0 | 50.0 | | 102 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.89* | | *8.00* | | *86.1* | *70-130* | | | |
| **Matrix Spike (2550057-MS2)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 52.4 | 20.0 | 50.0 | ND | 105 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.81* | | *8.00* | | *85.2* | *70-130* | | | |
| **Matrix Spike Dup (2550057-MSD2)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 53.6 | 20.0 | 50.0 | ND | 107 | 70-130 | 2.16 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.93* | | *8.00* | | *86.6* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550084-BLK1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *48.6* | | *50.0* | | *97.2* | *61-141* | | | |
| **LCS (2550084-BS1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 257 | 25.0 | 250 | | 103 | 66-144 | | | |
| *Surrogate: n-Nonane* | *50.4* | | *50.0* | | *101* | *61-141* | | | |
| **Matrix Spike (2550084-MS1)** | | | | **Source: E512091-06** | | | | | Prepared: 12/11/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 275 | 25.0 | 250 | ND | 110 | 56-156 | | | |
| *Surrogate: n-Nonane* | *54.5* | | *50.0* | | *109* | *61-141* | | | |
| **Matrix Spike Dup (2550084-MSD1)** | | | | **Source: E512091-06** | | | | | Prepared: 12/11/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 269 | 25.0 | 250 | ND | 108 | 56-156 | 2.37 | 20 | |
| *Surrogate: n-Nonane* | *53.4* | | *50.0* | | *107* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:09:47PM |

## Anions by EPA 300.0/9056A

Analyst: TP

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550081-BLK1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2550081-BS1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 259 | 20.0 | 250 | | 104 | 90-110 | | | |
| **Matrix Spike (2550081-MS1)** | | | | **Source: E512091-05** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 11900 | 200 | 250 | 11900 | 6.55 | 80-120 | | | M4 |
| **Matrix Spike Dup (2550081-MSD1)** | | | | **Source: E512091-05** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 12100 | 200 | 250 | 11900 | 93.0 | 80-120 | 1.80 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 17:09 |

| | |
|---|---|
| M4 | Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

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Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512095 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23003-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

| Sample Information | | | | | | | Analysis and Method | | | | | | | | | | EPA Program | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | SDWA / CWA / RCRA; Compliance Y or N; PWSID #; Samle Temp; Remarks |
| 1005 | 12/8/2025 | S | 1 | FS26 - 4' | | 1 | | | | | | | | | X | | | 1.9 |
| 1006 | 12/8/2025 | S | 1 | FS27 - 4' | | 2 | | | | | | | | | X | | | 1.2 |
| 1007 | 12/8/2025 | S | 1 | FS28 - 4' | | 3 | | | | | | | | | X | | | 1.2 |
| 1008 | 12/8/2025 | S | 1 | FS29 - 4' | | 4 | | | | | | | | | X | | | 1.2 |
| 1009 | 12/8/2025 | S | 1 | FS30 - 4' | | 5 | | | | | | | | | X | | | 1.9 |
| 1010 | 12/8/2025 | S | 1 | FS31 - 4' | | 6 | | | | | | | | | X | | | 1.9 |
| 1011 | 12/8/2025 | S | 1 | FS32 - 4' | | 7 | | | | | | | | | X | | | 1.7 |
| 1012 | 12/8/2025 | S | 1 | FS33 - 4' | | 8 | | | | | | | | | X | | | 2.7 |
| 1013 | 12/8/2025 | S | 1 | FS34 - 4' | | 9 | | | | | | | | | X | | | 2.7 |
| 1014 | 12/8/2025 | S | 1 | FS35 - 4' | | 10 | | | | | | | | | X | | | 2.7 |

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12-9-25 | 700 | Marissa Gonzales | 12-9-25 | 0700 |
| Marissa Gonzales | 12-9-25 | 1430 | Nathan Gonzales | 12-9-25 | 1430 |
| Nathan Gonzales | 12-9-25 | 1810 | | 12-9-25 | 1810 |
| | 12-9-25 | 2200 | | 12-10-25 | 800 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only
Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM



envirotech
Analytical Laboratory

# Chain of Custody

| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512095 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23003-0002 | | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | X | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1015 | 12/8/2025 | S | 1 | FS36 - 4' | | 11 | | | | | | | | | X | | | 3.1 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12-9-25 | 700 | Marissa Gonzales | 12-9-25 | 0790 |
| Marissa Gonzales | 12-9-25 | 1430 | Nathan Gonzales | 12-9-25 | 1430 |
| Nathan Gonzales | 12-9-25 | 1810 | | 12-9-25 | 1810 |
| | 12-9-25 | 2200 | | 12-10-25 | 800 |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 12/10/2025 10:20:57AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/10/25 08:00 | Work Order ID: | E512095 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/09/25 15:47 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 12/16/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

L-CM
R-NS

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

***Practical Solutions for a Better Tomorrow***

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 |
| Work Order: | E512097 |
| Job Number: | 23003-0002 |
| Received: | 12/10/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/16/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/16/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001
Workorder: E512097
Date Received: 12/10/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2025 8:00:00AM, under the Project Name: Marbob State #001.

The analytical test results summarized in this report with the Project Name: Marbob State #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

**Raina Schwanz**
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area**

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Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

**Michelle Gonzales**
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/25 13:26 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SW03-0-4" | E512097-01A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW04-0-4" | E512097-02A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW05-0-4" | E512097-03A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW06-0-4" | E512097-04A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW07-0-4" | E512097-05A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW08-0-4" | E512097-06A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW09-0-4" | E512097-07A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW10-0-4" | E512097-08A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW11-0-4" | E512097-09A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW12-0-4" | E512097-10A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW13-0-4" | E512097-11A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW14-0-4" | E512097-12A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW15-0-4" | E512097-13A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW16-0-4" | E512097-14A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW17-0-4" | E512097-15A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW18-0-4" | E512097-16A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW19-0-4" | E512097-17A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW20-0-4" | E512097-18A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW21-0-4" | E512097-19A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW22-0-4" | E512097-20A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW23-0-4" | E512097-21A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW24-0-4" | E512097-22A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW25-0-4" | E512097-23A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW26-0-4" | E512097-24A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW29-0-4" | E512097-25A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW30-0-4" | E512097-26A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW31-0-4" | E512097-27A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW32-0-4" | E512097-28A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW33-0-4" | E512097-29A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW34-0-4" | E512097-30A | Soil | 12/08/25 | 12/10/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW03-0-4''**

**E512097-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *95.2 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *105 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *99.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *95.2 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *105 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *99.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.9 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **173** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW04-0-4"**

**E512097-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *94.9 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *94.9 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.0 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **305** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW05-0-4"**

**E512097-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.4 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *99.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.4 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *99.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.2 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **109** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW06-0-4"**

**E512097-04**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *98.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *98.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.0 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW07-0-4''**

**E512097-05**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *92.2 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.9 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *92.2 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.9 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.2 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **39.5** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW08-0-4"**

**E512097-06**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *103 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *103 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *102 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **222** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW09-0-4''**

**E512097-07**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *95.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *95.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *99.5 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **160** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW10-0-4"**

**E512097-08**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *97.9 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *101 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *99.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *97.9 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *101 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *99.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW11-0-4''**

**E512097-09**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.7 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *106 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.7 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *106 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *103 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **23.8** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW12-0-4''**

**E512097-10**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.4 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.4 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *100 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *98.2 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **200** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW13-0-4"**

**E512097-11**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.7 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.5 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.7 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *96.7 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **115** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW14-0-4"**

**E512097-12**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.1 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.9 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **112** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW15-0-4"**

**E512097-13**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *95.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *96.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *95.0 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *96.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *98.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *99.1 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **34.0** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW16-0-4"**

**E512097-14**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.4 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.7 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: Bromofluorobenzene* | | *94.3 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *98.4 %* | *70-130* | *12/10/25* | *12/11/25* | |
| *Surrogate: Toluene-d8* | | *97.7 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.9 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW17-0-4"**

**E512097-15**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.0 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *92.1 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.0 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *92.1 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.7 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **221** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW18-0-4"**

**E512097-16**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *92.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *98.7 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *92.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *98.7 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *97.5 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **183** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW19-0-4"**

**E512097-17**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.6 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *98.1 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *96.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.6 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *98.1 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *99.2 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **168** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW20-0-4''**

**E512097-18**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *93.6 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *99.8 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *99.7 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *93.6 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *99.8 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *99.7 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *100 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW21-0-4''**

**E512097-19**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *88.9 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.9 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *97.3 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *88.9 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *97.9 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *97.3 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *99.5 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **471** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW22-0-4''**

**E512097-20**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA 8260B** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *91.8 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *101 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: SL | | | Batch: 2550063 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: Bromofluorobenzene* | | *91.8 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *101 %* | *70-130* | *12/10/25* | *12/12/25* | |
| *Surrogate: Toluene-d8* | | *101 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: KH | | | Batch: 2550088 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: DT | | | Batch: 2550085 |
| Chloride | **271** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW23-0-4''**

**E512097-21**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.7 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *90.9 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *95.7 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW24-0-4''**

**E512097-22**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *89.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *108 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *96.7 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | **35.0** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW25-0-4''**

**E512097-23**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/15/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/15/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/15/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/15/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/15/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/15/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *91.6 %* | *70-130* | *12/10/25* | *12/15/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/15/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.2 %* | *70-130* | *12/10/25* | *12/15/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *93.6 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | **27.4** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW26-0-4''**

**E512097-24**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *92.3 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *90.7 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *101 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | **25.0** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW29-0-4''**

**E512097-25**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *92.6 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *87.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *100 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | **326** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW30-0-4''**

**E512097-26**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *93.6 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.9 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *99.2 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW31-0-4"**

**E512097-27**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *92.5 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *94.1 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | **47.4** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW32-0-4''**

**E512097-28**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *94.0 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.5 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *95.6 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW33-0-4''**

**E512097-29**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *94.3 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *88.2 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *104 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

**SW34-0-4''**

**E512097-30**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *93.9 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: BA | | | Batch: 2550060 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *87.6 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/13/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/13/25 | |
| *Surrogate: n-Nonane* | | *95.6 %* | *61-141* | *12/12/25* | *12/13/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550082 |
| Chloride | **286** | 20.0 | 1 | 12/11/25 | 12/12/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550063-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: Bromofluorobenzene* | *0.487* | | *0.500* | | *97.4* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.498* | | *0.500* | | *99.6* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.497* | | *0.500* | | *99.3* | *70-130* | | | |
| **LCS (2550063-BS1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 2.26 | 0.0250 | 2.50 | | 90.3 | 70-130 | | | |
| Ethylbenzene | 2.41 | 0.0250 | 2.50 | | 96.4 | 70-130 | | | |
| Toluene | 2.28 | 0.0250 | 2.50 | | 91.4 | 70-130 | | | |
| o-Xylene | 2.31 | 0.0250 | 2.50 | | 92.6 | 70-130 | | | |
| p,m-Xylene | 4.71 | 0.0500 | 5.00 | | 94.2 | 70-130 | | | |
| Total Xylenes | 7.03 | 0.0250 | 7.50 | | 93.7 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.493* | | *0.500* | | *98.6* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.510* | | *0.500* | | *102* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.497* | | *0.500* | | *99.4* | *70-130* | | | |
| **Matrix Spike (2550063-MS1)** | | | | **Source: E512097-07** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 2.44 | 0.0250 | 2.50 | ND | 97.4 | 48-131 | | | |
| Ethylbenzene | 2.56 | 0.0250 | 2.50 | ND | 102 | 45-135 | | | |
| Toluene | 2.45 | 0.0250 | 2.50 | ND | 97.8 | 48-130 | | | |
| o-Xylene | 2.45 | 0.0250 | 2.50 | ND | 98.1 | 43-135 | | | |
| p,m-Xylene | 5.06 | 0.0500 | 5.00 | ND | 101 | 43-135 | | | |
| Total Xylenes | 7.51 | 0.0250 | 7.50 | ND | 100 | 43-135 | | | |
| *Surrogate: Bromofluorobenzene* | *0.489* | | *0.500* | | *97.7* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.491* | | *0.500* | | *98.1* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.490* | | *0.500* | | *98.0* | *70-130* | | | |
| **Matrix Spike Dup (2550063-MSD1)** | | | | **Source: E512097-07** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 2.42 | 0.0250 | 2.50 | ND | 96.7 | 48-131 | 0.783 | 23 | |
| Ethylbenzene | 2.56 | 0.0250 | 2.50 | ND | 102 | 45-135 | 0.0391 | 27 | |
| Toluene | 2.44 | 0.0250 | 2.50 | ND | 97.6 | 48-130 | 0.184 | 24 | |
| o-Xylene | 2.47 | 0.0250 | 2.50 | ND | 98.6 | 43-135 | 0.549 | 27 | |
| p,m-Xylene | 5.06 | 0.0500 | 5.00 | ND | 101 | 43-135 | 0.0989 | 27 | |
| Total Xylenes | 7.52 | 0.0250 | 7.50 | ND | 100 | 43-135 | 0.113 | 27 | |
| *Surrogate: Bromofluorobenzene* | *0.490* | | *0.500* | | *97.9* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.522* | | *0.500* | | *104* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.489* | | *0.500* | | *97.8* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Volatile Organics by EPA 8021B

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550060-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.38* | | *8.00* | | *92.2* | *70-130* | | | |
| **LCS (2550060-BS1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Benzene | 4.84 | 0.0250 | 5.00 | | 96.7 | 70-130 | | | |
| Ethylbenzene | 4.58 | 0.0250 | 5.00 | | 91.6 | 70-130 | | | |
| Toluene | 4.74 | 0.0250 | 5.00 | | 94.8 | 70-130 | | | |
| o-Xylene | 4.66 | 0.0250 | 5.00 | | 93.3 | 70-130 | | | |
| p,m-Xylene | 9.31 | 0.0500 | 10.0 | | 93.1 | 70-130 | | | |
| Total Xylenes | 14.0 | 0.0250 | 15.0 | | 93.2 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.42* | | *8.00* | | *92.7* | *70-130* | | | |
| **Matrix Spike (2550060-MS1)** | | | | **Source: E512096-05** | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Benzene | 5.42 | 0.0250 | 5.00 | ND | 108 | 70-130 | | | |
| Ethylbenzene | 5.12 | 0.0250 | 5.00 | ND | 102 | 70-130 | | | |
| Toluene | 5.30 | 0.0250 | 5.00 | ND | 106 | 70-130 | | | |
| o-Xylene | 5.24 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| p,m-Xylene | 10.4 | 0.0500 | 10.0 | ND | 104 | 70-130 | | | |
| Total Xylenes | 15.6 | 0.0250 | 15.0 | ND | 104 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.44* | | *8.00* | | *93.0* | *70-130* | | | |
| **Matrix Spike Dup (2550060-MSD1)** | | | | **Source: E512096-05** | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Benzene | 5.19 | 0.0250 | 5.00 | ND | 104 | 70-130 | 4.25 | 27 | |
| Ethylbenzene | 4.92 | 0.0250 | 5.00 | ND | 98.5 | 70-130 | 3.89 | 26 | |
| Toluene | 5.09 | 0.0250 | 5.00 | ND | 102 | 70-130 | 4.05 | 20 | |
| o-Xylene | 5.02 | 0.0250 | 5.00 | ND | 100 | 70-130 | 4.46 | 25 | |
| p,m-Xylene | 10.0 | 0.0500 | 10.0 | ND | 100 | 70-130 | 3.63 | 23 | |
| Total Xylenes | 15.0 | 0.0250 | 15.0 | ND | 100 | 70-130 | 3.91 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *7.35* | | *8.00* | | *91.9* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550060-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.18* | | *8.00* | | *89.7* | *70-130* | | | |
| **LCS (2550060-BS2)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Gasoline Range Organics (C6-C10) | 48.2 | 20.0 | 50.0 | | 96.5 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.20* | | *8.00* | | *90.0* | *70-130* | | | |
| **Matrix Spike (2550060-MS2)** | | | | **Source: E512096-05** | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Gasoline Range Organics (C6-C10) | 49.5 | 20.0 | 50.0 | ND | 98.9 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.31* | | *8.00* | | *91.4* | *70-130* | | | |
| **Matrix Spike Dup (2550060-MSD2)** | | | | **Source: E512096-05** | | | | | Prepared: 12/10/25 Analyzed: 12/13/25 |
| Gasoline Range Organics (C6-C10) | 49.7 | 20.0 | 50.0 | ND | 99.3 | 70-130 | 0.379 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.04* | | *8.00* | | *88.0* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550063-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: Bromofluorobenzene* | *0.487* | | *0.500* | | *97.4* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.498* | | *0.500* | | *99.6* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.497* | | *0.500* | | *99.3* | *70-130* | | | |
| **LCS (2550063-BS2)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 45.8 | 20.0 | 50.0 | | 91.5 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.485* | | *0.500* | | *96.9* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.499* | | *0.500* | | *99.8* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.508* | | *0.500* | | *102* | *70-130* | | | |
| **Matrix Spike (2550063-MS2)** | | | | **Source: E512097-07** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 47.0 | 20.0 | 50.0 | ND | 94.1 | 70-130 | | | |
| *Surrogate: Bromofluorobenzene* | *0.479* | | *0.500* | | *95.7* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.496* | | *0.500* | | *99.2* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.496* | | *0.500* | | *99.2* | *70-130* | | | |
| **Matrix Spike Dup (2550063-MSD2)** | | | | **Source: E512097-07** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 44.9 | 20.0 | 50.0 | ND | 89.8 | 70-130 | 4.64 | 20 | |
| *Surrogate: Bromofluorobenzene* | *0.491* | | *0.500* | | *98.2* | *70-130* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.494* | | *0.500* | | *98.8* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.503* | | *0.500* | | *101* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550088-BLK1)** | | | | | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *47.3* | | *50.0* | | *94.5* | *61-141* | | | |
| **LCS (2550088-BS1)** | | | | | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 247 | 25.0 | 250 | | 99.0 | 66-144 | | | |
| *Surrogate: n-Nonane* | *48.0* | | *50.0* | | *96.1* | *61-141* | | | |
| **Matrix Spike (2550088-MS1)** | | | | **Source: E512097-01** | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 263 | 25.0 | 250 | ND | 105 | 56-156 | | | |
| *Surrogate: n-Nonane* | *49.8* | | *50.0* | | *99.6* | *61-141* | | | |
| **Matrix Spike Dup (2550088-MSD1)** | | | | **Source: E512097-01** | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 266 | 25.0 | 250 | ND | 107 | 56-156 | 1.30 | 20 | |
| *Surrogate: n-Nonane* | *49.9* | | *50.0* | | *99.7* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550091-BLK1)** | | | | | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *50.5* | | *50.0* | | *101* | *61-141* | | | |
| **LCS (2550091-BS1)** | | | | | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 241 | 25.0 | 250 | | 96.3 | 66-144 | | | |
| *Surrogate: n-Nonane* | *47.2* | | *50.0* | | *94.5* | *61-141* | | | |
| **Matrix Spike (2550091-MS1)** | | | | **Source: E512096-02** | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 246 | 25.0 | 250 | ND | 98.4 | 56-156 | | | |
| *Surrogate: n-Nonane* | *48.1* | | *50.0* | | *96.2* | *61-141* | | | |
| **Matrix Spike Dup (2550091-MSD1)** | | | | **Source: E512096-02** | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 247 | 25.0 | 250 | ND | 99.0 | 56-156 | 0.532 | 20 | |
| *Surrogate: n-Nonane* | *47.8* | | *50.0* | | *95.7* | *61-141* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Anions by EPA 300.0/9056A

Analyst: TP

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550082-BLK1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2550082-BS1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 257 | 20.0 | 250 | | 103 | 90-110 | | | |
| **Matrix Spike (2550082-MS1)** | | | | **Source: E512096-05** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 453 | 200 | 250 | 207 | 98.4 | 80-120 | | | |
| **Matrix Spike Dup (2550082-MSD1)** | | | | **Source: E512096-05** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 451 | 200 | 250 | 207 | 97.5 | 80-120 | 0.487 | 20 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/2025 1:26:36PM |

## Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550085-BLK1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2550085-BS1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 258 | 20.0 | 250 | | 103 | 90-110 | | | |
| **Matrix Spike (2550085-MS1)** | | | | **Source: E512097-07** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 489 | 20.0 | 250 | 160 | 132 | 80-120 | | | M2 |
| **Matrix Spike Dup (2550085-MSD1)** | | | | **Source: E512097-07** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 520 | 20.0 | 250 | 160 | 144 | 80-120 | 6.17 | 20 | M2 |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/16/25 13:26 |

| | |
|---|---|
| M2 | Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512097 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23003-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1022 | 12/8/2025 | S | 1 | SW03 - 0 - 4" | | 1 | | | | | | | | | X | | | 3.4 | |
| 1024 | 12/8/2025 | S | 1 | SW04 - 0 - 4" | | 2 | | | | | | | | | X | | | 3.6 | |
| 1025 | 12/8/2025 | S | 1 | SW05 - 0 - 4" | | 3 | | | | | | | | | X | | | 3.2 | |
| 1027 | 12/8/2025 | S | 1 | SW06 - 0 - 4" | | 4 | | | | | | | | | X | | | 3.6 | |
| 1028 | 12/8/2025 | S | 1 | SW07 - 0 - 4" | | 5 | | | | | | | | | X | | | 3.5 | |
| 1029 | 12/8/2025 | S | 1 | SW08 - 0 - 4" | | 6 | | | | | | | | | X | | | 2.8 | |
| 1030 | 12/8/2025 | S | 1 | SW09 - 0 - 4" | | 7 | | | | | | | | | X | | | 2.4 | |
| 1032 | 12/8/2025 | S | 1 | SW10 - 0 - 4" | | 8 | | | | | | | | | X | | | 3.0 | |
| 1033 | 12/8/2025 | S | 1 | SW11 - 0 - 4" | | 9 | | | | | | | | | X | | | 3.6 | |
| 1034 | 12/8/2025 | S | 1 | SW12 - 0 - 4" | | 10 | | | | | | | | | X | | | 2.8 | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12-9-25 | 700 | Marissa Gonzales | 12-9-25 | 0700 |
| Marissa Gonzales | 12-9-25 | 1430 | Nathan Gonzales | 12-9-25 | 1430 |
| Nathan Gonzales | 12-9-25 | 1810 | | 12-9-25 | 1810 |
| | 12-9-25 | 2200 | | 12-10-25 | 800 |
| | | | | | |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512097 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23003-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1035 | 12/8/2025 | S | 1 | SW13 - 0 - 4" | | 11 | | | | | | | | | X | | | 2.4 | |
| 1037 | 12/8/2025 | S | 1 | SW14 - 0 - 4" | | 12 | | | | | | | | | X | | | 3.0 | |
| 1038 | 12/8/2025 | S | 1 | SW15 - 0 - 4" | | 13 | | | | | | | | | X | | | 3.0 | |
| 1039 | 12/8/2025 | S | 1 | SW16 - 0 - 4" | | 14 | | | | | | | | | X | | | 2.4 | |
| 1040 | 12/8/2025 | S | 1 | SW17 - 0 - 4" | | 15 | | | | | | | | | X | | | 2.8 | |
| 1041 | 12/8/2025 | S | 1 | SW18 - 0 - 4" | | 16 | | | | | | | | | X | | | 2.8 | |
| 1043 | 12/8/2025 | S | 1 | SW19 - 0 - 4" | | 17 | | | | | | | | | X | | | 3.2 | |
| 1044 | 12/8/2025 | S | 1 | SW20 - 0 - 4" | | 18 | | | | | | | | | X | | | 3.2 | |
| 1045 | 12/8/2025 | S | 1 | SW21 - 0 - 4" | | 19 | | | | | | | | | X | | | 3.4 | |
| 1046 | 12/8/2025 | S | 1 | SW22 - 0 - 4" | | 20 | | | | | | | | | X | | | 3.6 | |

**Analysis and Method**

**EPA Program**

| SDWA | CWA | RCRA |
|---|---|---|
| | | |

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12-9-25 | 700 | Marissa Gonzales | 12-9-25 | 0700 |
| Marissa Gonzales | 12-9-25 | 1430 | Nathan Gonzales | 12-9-25 | 1430 |
| Nathan Gonzales | 12-9-25 | 1810 | Brittany Bee | 12-9-25 | 1810 |
| Brittany Bee | 12-9-25 | 2200 | Caitlin Mars | 12-10-25 | 800 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512097 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23003-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
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| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1047 | 12/8/2025 | S | 1 | SW23 - 0 - 4" | | 21 | | | | | | | | | X | | | 2.9 | |
| 1049 | 12/8/2025 | S | 1 | SW24 - 0 - 4" | | 22 | | | | | | | | | X | | | 3.6 | |
| 1050 | 12/8/2025 | S | 1 | SW25 - 0 - 4" | | 23 | | | | | | | | | X | | | 3.4 | |
| 1051 | 12/8/2025 | S | 1 | SW26 - 0 - 4" | | 24 | | | | | | | | | X | | | 3.0 | |
| 1054 | 12/8/2025 | S | 1 | SW29 - 0 - 4" | | 25 | | | | | | | | | X | | | 2.8 | |
| 1055 | 12/8/2025 | S | 1 | SW30 - 0 - 4" | | 26 | | | | | | | | | X | | | 2.4 | |
| 1056 | 12/8/2025 | S | 1 | SW31 - 0 - 4" | | 27 | | | | | | | | | X | | | 2.6 | |
| 1057 | 12/8/2025 | S | 1 | SW32 - 0 - 4" | | 28 | | | | | | | | | X | | | 3.2 | |
| 1058 | 12/8/2025 | S | 1 | SW33 - 0 - 4" | | 29 | | | | | | | | | X | | | 3.6 | |
| 1101 | 12/8/2025 | S | 1 | SW34 - 0 - 4" | | 30 | | | | | | | | | X | | | 3.0 | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
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| Marissa Gonzales | 12-9-25 | 1430 | Nathan Gonzales | 12-9-25 | 1430 |
| Nathan Gonzales | 12-9-25 | 1810 | Brittany Bess | 12-9-25 | 1810 |
| Brittany Bess | 12-9-25 | 2200 | Cristian Mora | 12-10-25 | 800 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 12/10/2025 10:25:52AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/10/25 08:00 | Work Order ID: | E512097 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/09/25 15:54 | Logged In By: | Caitlin Mars |
| Email: | agiovengo@ensolum.com | Due Date: | 12/16/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

L-CM
R-NS

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

# envirotech

***Practical Solutions for a Better Tomorrow***

## Analytical Report

Matador Resources, LLC.

| | |
|---|---|
| Project Name: | Marbob State #001 |
| Work Order: | E512098 |
| Job Number: | 23003-0002 |
| Received: | 12/10/2025 |

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/15/25

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Marbob State #001
Workorder: E512098
Date Received: 12/10/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2025 8:00:00AM, under the Project Name: Marbob State #001.

The analytical test results summarized in this report with the Project Name: Marbob State #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**
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# Sample Summary

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 17:12 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| SW01 - 0-4' | E512098-01A | Soil | 12/09/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW02 - 0-4' | E512098-02A | Soil | 12/09/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW27 - 0-4' | E512098-03A | Soil | 12/09/25 | 12/10/25 | Glass Jar, 2 oz. |
| SW28 - 0-4' | E512098-04A | Soil | 12/09/25 | 12/10/25 | Glass Jar, 2 oz. |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

**SW01 - 0-4'**

**E512098-01**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/11/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *106 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/11/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.6 %* | *70-130* | *12/10/25* | *12/11/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550087 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *99.0 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550075 |
| Chloride | **49.2** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

## SW02 - 0-4'

**E512098-02**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *105 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.4 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550087 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *98.9 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550075 |
| Chloride | **53.7** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

## SW27 - 0-4'

**E512098-03**

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *104 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.8 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550087 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *98.7 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550075 |
| Chloride | **37.9** | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# Sample Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

## SW28 - 0-4'

## E512098-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021B** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Benzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| Toluene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| o-Xylene | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 12/10/25 | 12/12/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *104 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - GRO** | mg/kg | mg/kg | Analyst: MB | | | Batch: 2550057 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 12/10/25 | 12/12/25 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *85.8 %* | *70-130* | *12/10/25* | *12/12/25* | |
| **Nonhalogenated Organics by EPA 8015D - DRO/ORO** | mg/kg | mg/kg | Analyst: HM | | | Batch: 2550087 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 12/12/25 | 12/12/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 12/12/25 | 12/12/25 | |
| *Surrogate: n-Nonane* | | *100 %* | *61-141* | *12/12/25* | *12/12/25* | |
| **Anions by EPA 300.0/9056A** | mg/kg | mg/kg | Analyst: TP | | | Batch: 2550075 |
| Chloride | ND | 20.0 | 1 | 12/11/25 | 12/11/25 | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

## Volatile Organics by EPA 8021B

Analyst: MB

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550057-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.22* | | *8.00* | | *103* | *70-130* | | | |
| **LCS (2550057-BS1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 4.97 | 0.0250 | 5.00 | | 99.4 | 70-130 | | | |
| Ethylbenzene | 4.78 | 0.0250 | 5.00 | | 95.6 | 70-130 | | | |
| Toluene | 4.91 | 0.0250 | 5.00 | | 98.1 | 70-130 | | | |
| o-Xylene | 4.86 | 0.0250 | 5.00 | | 97.2 | 70-130 | | | |
| p,m-Xylene | 9.77 | 0.0500 | 10.0 | | 97.7 | 70-130 | | | |
| Total Xylenes | 14.6 | 0.0250 | 15.0 | | 97.6 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.47* | | *8.00* | | *106* | *70-130* | | | |
| **Matrix Spike (2550057-MS1)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 5.41 | 0.0250 | 5.00 | ND | 108 | 70-130 | | | |
| Ethylbenzene | 5.21 | 0.0250 | 5.00 | ND | 104 | 70-130 | | | |
| Toluene | 5.33 | 0.0250 | 5.00 | ND | 107 | 70-130 | | | |
| o-Xylene | 5.25 | 0.0250 | 5.00 | ND | 105 | 70-130 | | | |
| p,m-Xylene | 10.6 | 0.0500 | 10.0 | ND | 106 | 70-130 | | | |
| Total Xylenes | 15.9 | 0.0250 | 15.0 | ND | 106 | 70-130 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.58* | | *8.00* | | *107* | *70-130* | | | |
| **Matrix Spike Dup (2550057-MSD1)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Benzene | 5.52 | 0.0250 | 5.00 | ND | 110 | 70-130 | 2.01 | 27 | |
| Ethylbenzene | 5.31 | 0.0250 | 5.00 | ND | 106 | 70-130 | 1.90 | 26 | |
| Toluene | 5.43 | 0.0250 | 5.00 | ND | 109 | 70-130 | 1.91 | 20 | |
| o-Xylene | 5.36 | 0.0250 | 5.00 | ND | 107 | 70-130 | 2.11 | 25 | |
| p,m-Xylene | 10.8 | 0.0500 | 10.0 | ND | 108 | 70-130 | 1.98 | 23 | |
| Total Xylenes | 16.2 | 0.0250 | 15.0 | ND | 108 | 70-130 | 2.03 | 26 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.52* | | *8.00* | | *107* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: MB

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550057-BLK1)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.88* | | *8.00* | | *86.0* | *70-130* | | | |
| **LCS (2550057-BS2)** | | | | | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 50.8 | 20.0 | 50.0 | | 102 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.89* | | *8.00* | | *86.1* | *70-130* | | | |
| **Matrix Spike (2550057-MS2)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 52.4 | 20.0 | 50.0 | ND | 105 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.81* | | *8.00* | | *85.2* | *70-130* | | | |
| **Matrix Spike Dup (2550057-MSD2)** | | | | **Source: E512095-09** | | | | | Prepared: 12/10/25 Analyzed: 12/11/25 |
| Gasoline Range Organics (C6-C10) | 53.6 | 20.0 | 50.0 | ND | 107 | 70-130 | 2.16 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *6.93* | | *8.00* | | *86.6* | *70-130* | | | |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550087-BLK1)** | | | | | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| *Surrogate: n-Nonane* | *48.8* | | *50.0* | | *97.6* | *61-141* | | | |
| **LCS (2550087-BS1)** | | | | | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 243 | 25.0 | 250 | | 97.3 | 66-144 | | | |
| *Surrogate: n-Nonane* | *49.5* | | *50.0* | | *98.9* | *61-141* | | | |
| **LCS Dup (2550087-BSD1)** | | | | | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 274 | 25.0 | 250 | | 110 | 66-144 | 12.0 | 20 | |
| *Surrogate: n-Nonane* | *54.5* | | *50.0* | | *109* | *61-141* | | | |
| **Matrix Spike (2550087-MS1)** | | | | **Source: E512120-02** | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 746 | 25.0 | 250 | 816 | NR | 56-156 | | | M4 |
| *Surrogate: n-Nonane* | *140* | | *50.0* | | *280* | *61-141* | | | *S5* |
| **Matrix Spike Dup (2550087-MSD1)** | | | | **Source: E512120-02** | | | | | Prepared: 12/12/25 Analyzed: 12/12/25 |
| Diesel Range Organics (C10-C28) | 1040 | 25.0 | 250 | 816 | 88.6 | 56-156 | 32.7 | 20 | R3 |
| *Surrogate: n-Nonane* | *205* | | *50.0* | | *411* | *61-141* | | | *S5* |

# QC Summary Data

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | **Reported:** |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/2025 5:12:49PM |

## Anions by EPA 300.0/9056A

Analyst: TP

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |
| **Blank (2550075-BLK1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | ND | 20.0 | | | | | | | |
| **LCS (2550075-BS1)** | | | | | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 255 | 20.0 | 250 | | 102 | 90-110 | | | |
| **Matrix Spike (2550075-MS1)** | | | | **Source: E512113-03** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 260 | 20.0 | 250 | ND | 104 | 80-120 | | | |
| **Matrix Spike Dup (2550075-MSD1)** | | | | **Source: E512113-03** | | | | | Prepared: 12/11/25 Analyzed: 12/11/25 |
| Chloride | 261 | 20.0 | 250 | ND | 104 | 80-120 | 0.166 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Definitions and Notes

| | | | |
|---|---|---|---|
| Matador Resources, LLC. | Project Name: | Marbob State #001 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | **Reported:** |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 12/15/25 17:12 |

| | |
|---|---|
| M4 | Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable. |
| R3 | The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria. |
| S5 | Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| DNI | Did Not Ignite |
| DNR | Did not react with the addition of acid or base. |

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

envirotech
Analytical Laboratory

# Chain of Custody



| Client Information | Invoice Information | Lab Use Only | TAT | State |
|---|---|---|---|---|
| Client: Matador Production Company | Company: Ensolum LLC | Lab WO# E512098 | 1D 2D 3D Std | NM CO UT TX |
| Project Name: Marbob State #001 | Address: 3122 National Parks Hwy | Job Number 23003-0002 | X | X |
| Project Manager: Ashley Giovengo | City, State, Zip: Carlsbad NM, 88220 | | | |
| Address: 3122 National Parks Hwy | Phone: 575-988-0055 | | | |
| City, State, Zip: Carlsbad NM, 88220 | Email: agiovengo@ensolum.com | | | |
| Phone: 575-988-0055 | Miscellaneous: | | | |
| Email: agiovengo@ensolum.com | | | | |

**Sample Information**

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Field Filter | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Chloride 300.0 | TCEQ 1005 - TX | RCRA 8 Metals | | BGDOC - NM | BGDOC - TX | | Sample Temp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 835 | 12/9/2025 | S | 1 | SW01 - 0 - 4' | | 1 | | | | | | | | | X | | | 3.0 | |
| 837 | 12/9/2025 | S | 1 | SW02 - 0 - 4' | | 2 | | | | | | | | | X | | | 2.4 | |
| 839 | 12/9/2025 | S | 1 | SW27 - 0 - 4' | | 3 | | | | | | | | | X | | | 2.2 | |
| 841 | 12/9/2025 | S | 1 | SW28 - 0 - 4' | | 4 | | | | | | | | | X | | | 1.8 | |

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jarad McCauley

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | 12-9-25 | 0900 | Marissa Gonzales | 12-9-25 | 0900 |
| Marissa Gonzales | 12-9-25 | 1430 | Nathan Gonzales | 12-9-25 | 1430 |
| Nathan Gonzales | 12-9-25 | 1810 | | 12-9-25 | 1810 |
| | 12-9-25 | 2200 | Caitlyn Mann | 12-10-25 | 800 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Envirotech Analytical Laboratory

Printed: 12/10/2025 10:27:19AM

## Sample Receipt Checklist (SRC)

**Instructions: Please take note of any NO checkmarks.**
**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

| | | | | | |
|---|---|---|---|---|---|
| Client: | Matador Resources, LLC. | Date Received: | 12/10/25 08:00 | Work Order ID: | E512098 |
| Phone: | (972) 371-5200 | Date Logged In: | 12/10/25 09:07 | Logged In By: | Noe Soto |
| Email: | agiovengo@ensolum.com | Due Date: | 12/16/25 17:00 (4 day TAT) | | |

**Chain of Custody (COC)**

| | | |
|---|---|---|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: Courier |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion. | Yes | |

**Sample Turn Around Time (TAT)**

| | | |
|---|---|---|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes | |

**Sample Cooler**

| | | |
|---|---|---|
| 7. Was a sample cooler received? | Yes | |
| 8. If yes, was cooler received in good condition? | Yes | |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes | |
| 10. Were custody/security seals present? | No | |
| 11. If yes, were custody/security seals intact? | NA | |
| 12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling | Yes | |
| 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. | | |

**Sample Container**

| | | |
|---|---|---|
| 14. Are aqueous VOC samples present? | No | |
| 15. Are VOC samples collected in VOA Vials? | NA | |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA | |
| 17. Was a trip blank (TB) included for VOC analyses? | NA | |
| 18. Are non-VOC samples collected in the correct containers? | Yes | |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes | |

**Field Label**

| | | |
|---|---|---|
| 20. Were field sample labels filled out with the minimum information: | | |
| Sample ID? | Yes | |
| Date/Time Collected? | Yes | |
| Collectors name? | Yes | |

**Sample Preservation**

| | | |
|---|---|---|
| 21. Does the COC or field labels indicate the samples were preserved? | No | |
| 22. Are sample(s) correctly preserved? | NA | |
| 24. Is lab filtration required and/or requested for dissolved metals? | No | |

**Multiphase Sample Matrix**

| | | |
|---|---|---|
| 26. Does the sample have more than one phase, i.e., multiphase? | No | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA | |

**Subcontract Laboratory**

| | | |
|---|---|---|
| 28. Are samples required to get sent to a subcontract laboratory? | No | |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA | Subcontract Lab: NA |

**Comments/Resolution**

L-CM
R-NS

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

ENSOLUM

# APPENDIX I

# NMOCD Correspondence

RECEIVED



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

JUL 23 2018

DISTRICT II-ARTESIA O.C.D.

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# Release Notification and Corrective Action

nAB1821141249

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company Matador Resources Company 228937 | Contact Casey Snow |
| Address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 | Telephone No. (972) 371-5439 |
| Facility Name MARBOB STATE #001 | Facility Type SWD |

| | | |
|---|---|---|
| Surface Owner State of New Mexico | Mineral Owner State of New Mexico | API No. 30-015-26040 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| A | 19 | 19S | 29E | 660 | North | 680 | West | Eddy |

**Latitude** 32.65182 **Longitude** 104.1077576 NAD83

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release Produced Water | Volume of Release 326 bbls | Volume Recovered unknown |
| Source of Release ~~Illegal dumping~~ | Date and Hour of Occurrence 7/1/18 | Date and Hour of Discovery 6/29/18 ~4:00p.m.. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher | |
| By Whom? Lucas Middleton( SMA) | Date and Hour 7/2/18 @5:22pm * email | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*
Equipment failed causing the secondary containment to fill until the fluids spilled over the front of the battery running east and pooled on pad and pasture. The location was shut down and a vacuum truck was on site vacuuming all standing fluids

Describe Area Affected and Cleanup Action Taken.*
The release occurred within the tank battery. Two areas one North and one south allow for the liquid to run over the berm and down in to the pad and pasture. No waterways were reached. SMA will delineate and remediate the site as per NMOCD rules and regulations.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:

Printed Name: Casey Snow

Title: Manager Regulatory, Environmental, & Safety

E-mail Address: csnow@matadorresources.com

Date: 7/7/18 Phone:(972) 371-5439

## OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Mike Bratcher

Approval Date: 7/24/18 Expiration Date: N/A

Conditions of Approval: See attached

Attached # 224873

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/23/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP4873 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/23/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

## Bratcher, Mike, EMNRD

**From:** Lucas Middleton <lucas.middleton@soudermiller.com>
**Sent:** Monday, July 23, 2018 4:05 PM
**To:** Bratcher, Mike, EMNRD
**Subject:** RE: C141- Initial Matador Resources ,MARBOB STATE #001,30-015-26040

Mike,
It was equipment failure NOT illegal dumping . Yes there was one but I have not been able to get the haul tickets yet.
Thank you for clarifying with me.

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
**Sent:** Monday, July 23, 2018 1:33 PM
**To:** Lucas Middleton <lucas.middleton@soudermiller.com>
**Cc:** rmann@slo.state.nm.us; Casey Snow <CSnow@matadorresources.com>; Pruett, Maria, EMNRD <Maria.Pruett@state.nm.us>
**Subject:** RE: C141- Initial Matador Resources ,MARBOB STATE #001,30-015-26040

Lucas,

In one block of this C-141, it indicates the source of release was illegal dumping. The description of the release indicates equipment failure. Do you know which one is correct? The document also indicates a vac truck was onsite to recover standing fluids, but recovery volume is listed as unknown. We can go with unknown, but just wanted to check.

Thanks,

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

**From:** Lucas Middleton <lucas.middleton@soudermiller.com>
**Sent:** Monday, July 23, 2018 12:25 PM
**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
**Cc:** rmann@slo.state.nm.us
**Subject:** C141- Initial Matador Resources ,MARBOB STATE #001,30-015-26040

Good Afternoon,
On behalf of Matador Resources, SMA is submitting a C141- Initial for a release that occurred on their location MARBOB STATE #001 , 30-015-26040.
See attached document.

Lucas Middleton
Staff GeoScientist
(575) 499-9244 (mobile)

## Bratcher, Mike, EMNRD

**From:** Lucas Middleton <lucas.middleton@soudermiller.com>
**Sent:** Monday, July 2, 2018 5:22 PM
**To:** Bratcher, Mike, EMNRD
**Cc:** rmann@slo.state.nm.us
**Subject:** Initial Release Notifications for Matador Resources

Mike,
Below are two initial release notifications for Matador Resources.

**MATADOR PRODUCTION COMPANY**
**SST #003**
API: 30-015-26457
Oil Well
GPS Location: 32.694977°, -104.115822°
Surface Land Owner: State of New Mexico
Cause of Release: Illegal Dump.
Pathway: The illegal dumping affected three well pads, as well as the lease roads associated. No waterways were reached.
Estimated surface release area: 5,114 square yards
Estimated Date of Release: unknown
Date of Discovery : 6/29/18 4:00 p.m.
Estimated Volume loss: unknown

An illegal dumping took place at an unknown time. An environmental firm was called to the location on June 29th, 2018 to assess and delineate the site. It was at this time that the full extent of the dumping was learned

**MATADOR PRODUCTION COMPANY**
**MARBOB STATE #001**
API: 30-015-26040
Salt Water Disposal
GPS Location: 32.6518211,-104.1077576
Surface Land Owner: State of New Mexico
Cause of Release: Equipment Failure.
Pathway: The release occurred within the tank battery. Two areas one North and one south allow for the liquid to run over the berm and down in to the pad and pasture. No waterways were reached.
Estimated surface release area: 5,114 square yards
Estimated Date of Release: 7/1/18
Date of Discovery : 7/2/18 7:00 a.m.
Estimated Volume loss: ~127 bbls produced water

Lucas Middleton
Staff GeoScientist
(575) 499-9244 (mobile)

SMA
Souder, Miller & Associates

ENSOLUM

# APPENDIX J

# Previous Closure Report Prepared by SMA

Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220
(575) 689-8801

November 8, 2018

#5E26816 BG12

NMOCD District 2
Maria Pruett
811 S. 1st Street
Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Marbob State #1 Release (2RP-4873-0), Eddy County, New Mexico

Dear Ms. Pruett:

On behalf of Matador Resources Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Marbob State #1 site. The site is in Unit A, Section 19, Township 19S, Range 29E, Eddy County, New Mexico, on State of New Mexico land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

| Table 1: Release Information and Closure Criteria | | | |
|---|---|---|---|
| Name | Marbob State #001 | Company | Matador Resources Company |
| API Number | 30-015-26040 | Location | 32.65182 -104.1077576 |
| Incident Number | RP-4873-0 | | |
| Estimated Date of Release | 6/29/2018 | Date Reported to NMOCD | 7/1/2018 |
| Land Owner | State of New Mexico | Reported To | Mike Bratcher |
| Source of Release | Equipment failed causing the secondary containment to fill until the fluids spilled over the front of the battery. | | |
| Released Volume | 326 bbls | Released Material | Produced Water |
| Recovered Volume | Unknown | Net Release | 326 bbls |
| NMOCD Closure Criteria | >100 feet to groundwater | | |
| SMA Response Dates | 7/10/2018, 7/20/2018, 7/24/2018 & 11/5/2018 | | |

## 1.0 Background

On June 29, 2018, a release was discovered at the Marbob State #01 site due to equipment failure. Initial response activities were conducted by Matador and included shutting down the location and using a vacuum truck to collect all standing fluids. All recovered fluid went to a NMOCD approved disposal facility. Figure 1 illustrates the regional vicinity and wellhead protection in the area, Figure 2 illustrates the surface water protection in the area, and Figure 3 illustrates the site and sample location map. The initial and final C-141 form is included in Appendix A.

## 2.0 Site Information and Closure Criteria

The Marbob State #001 is located approximately 10 miles west of Hackberry Lake Located in Eddy County New Mexico on State land at an elevation of approximately 3,364 feet above mean sea level (amsl).

Based upon OSE and USGS (Appendix B), depth to groundwater in the area is estimated to be 131 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 10/4/2018). The nearest significant watercourse is the Pecos River, located approximately 11.3 miles to the east. Figure 1 illustrates the site location lying within a sensitive area as described in 19.15.29.12.C(4) NMAC. According to the Bureau of Land Management's Karst Potential Map, the location falls within an area with high karst potential. After observing the geology and surface features of the location both aerially and in person and finding no outstanding evidence of high karst on or around location, SMA then contracted Cave & Karst Surface Evaluation to perform a cave and karst survey of the area. The release area was established in the pad and pasture and then a 200-meter buffer surveyed around the perimeter and inspected for cave and karst concerns. It was concluded that there were no cave or karst concerns found within the 200-meter buffer zone of the release. The cave and karst survey report and map can be found in Appendix C.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC as well as completely delineated.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

## 3.0 Release Characterization Activities and Findings

On July 10, 2018, SMA personnel arrived on site in response to the release associated with Marbob State #1. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter. A total of 3 sample locations (BH1-BH3) were investigated on the pad using a hand-auger, to depths up to three (3) feet bgs.

After receiving elevated chloride data on lab analysis from that sampling event, SMA returned to the location to further delineate the release on July 20, 2018. The three sample locations (BH1-BH3) were advanced to depths up to 8 feet bgs and an additional 3 sample locations were created to establish vertical delineation in the pasture (BH4-BH6). SMA established the horizonal extent of the release on the pad (SW1-SW5).

Delineation and confirmation samples were collected for laboratory analysis for a combination of total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples and field-screening results as well as identifying any variances from the typical specification of two samples per boring. Locations for all samples are depicted on Figure 3.

Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

As summarized in Table 3, results indicate that an area approximately 7420 square feet on the pad and 2400 square feet in the pasture have been impacted.

## 4.0 Soil Remediation Summary

After approval from area utilities via 811, SMA returned to the site to guide the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was not notified 48 hrs prior to closure samples being collected due to the fact they were collected before NMAC - Rp, 19.15.29.5 NMAC, 8/14/2018 was put into effect.

SMA returned to location to oversee the remainder of the excavation of the pasture on July 24, 2018 and collected 10 additional confirmation sidewall samples (SW6-SW15). The release area in the pasture represented by sample locations (BH4-BH6) was excavated to a depth of 4 feet bgs, the area represented by BH3 was excavated to a depth of 4 feet bgs, and the area represented by BH1 and BH2 were excavated to 2 feet bgs. Because of construction that operations needed to complete on the pad, contaminated soils were removed and then replaced with clean backfill material to return the surface to previous contours before return on the lab analysis from the July 24$^{th}$ sampling event.

SMA then returned to the location on November 5, 2018 to complete the delineation of chlorides (once the construction was complete) at BH1-BH6 and collect closure sidewall samples SW1, SW2, SW6 and SW10.

Figure 3 shows the impact and sample locations. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

In addition to meeting the Closure Criteria, the top four (4) feet of impacted areas off the well pad meet the Reclamation requirement of 19.15.29.13(D)(1) as they were removed and replaced with clean material. The contaminated soil was transported and disposed of at an NMOCD permitted disposal facility.

## 5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Lucas Middleton
Staff Scientist

Austin Weyant
Senior Scientist

**ATTACHMENTS:**

**Figures:**

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Surface Water Protection Map
Figure 3: Site and Sample Location Map

**Tables:**

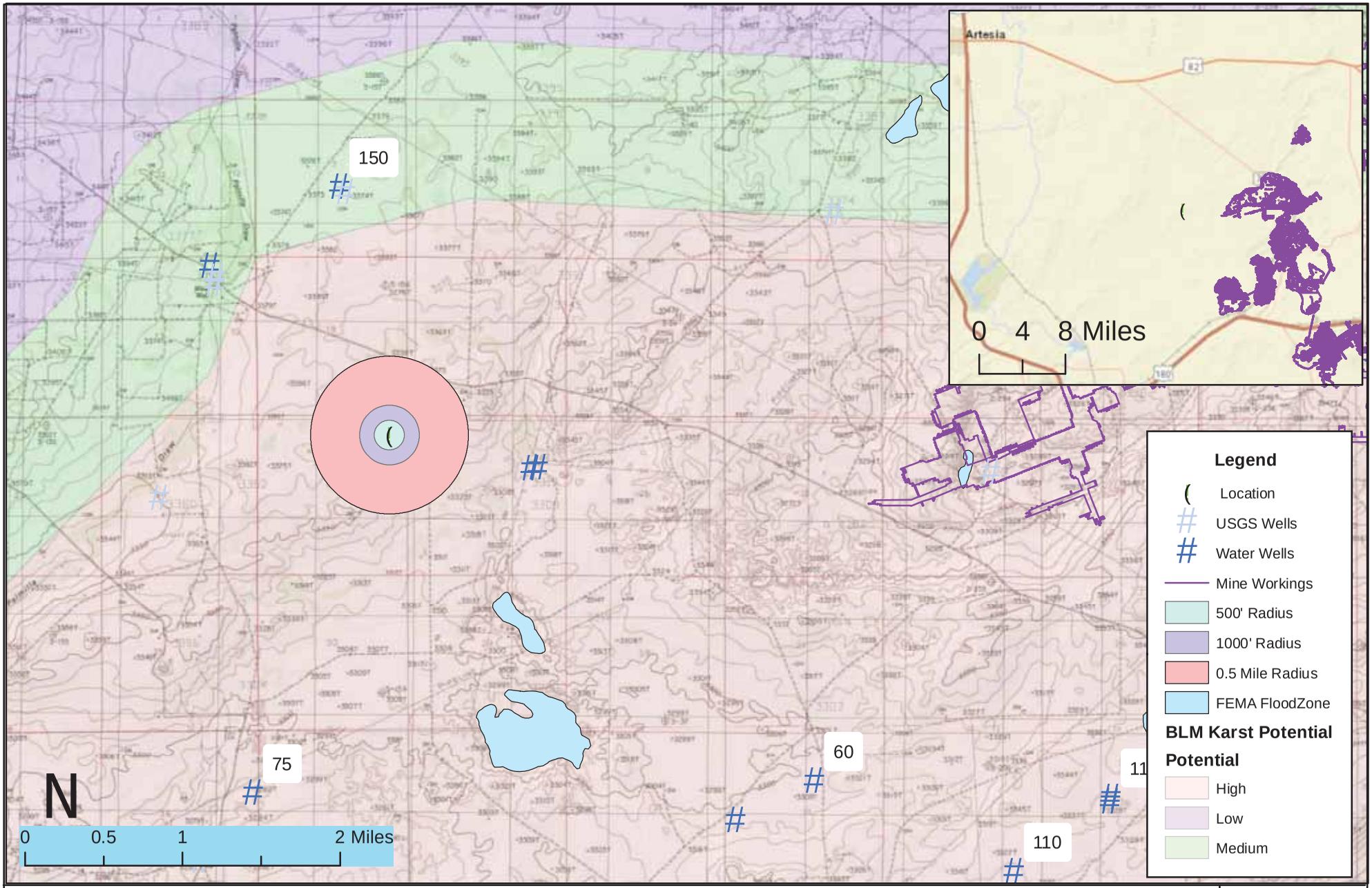
Table 2: NMOCD Closure Criteria Justification
Table 3: Summary of Sample Results

**Appendices:**

Appendix A: Form C141
Appendix B: NMOSE Wells Report
Appendix C: Cave & Karst Surface Evaluation
Appendix D: Laboratory Analytical Reports

# FIGURES

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*Regional Vicinity & Wellhead Protection Map*
*MARBOB STATE #001 Matador Resources*
*S: 19T19S R29 E, Eddy County New Mexico*

Figure 1

Revisions
By: Date: Descr:
By: Date: Descr:

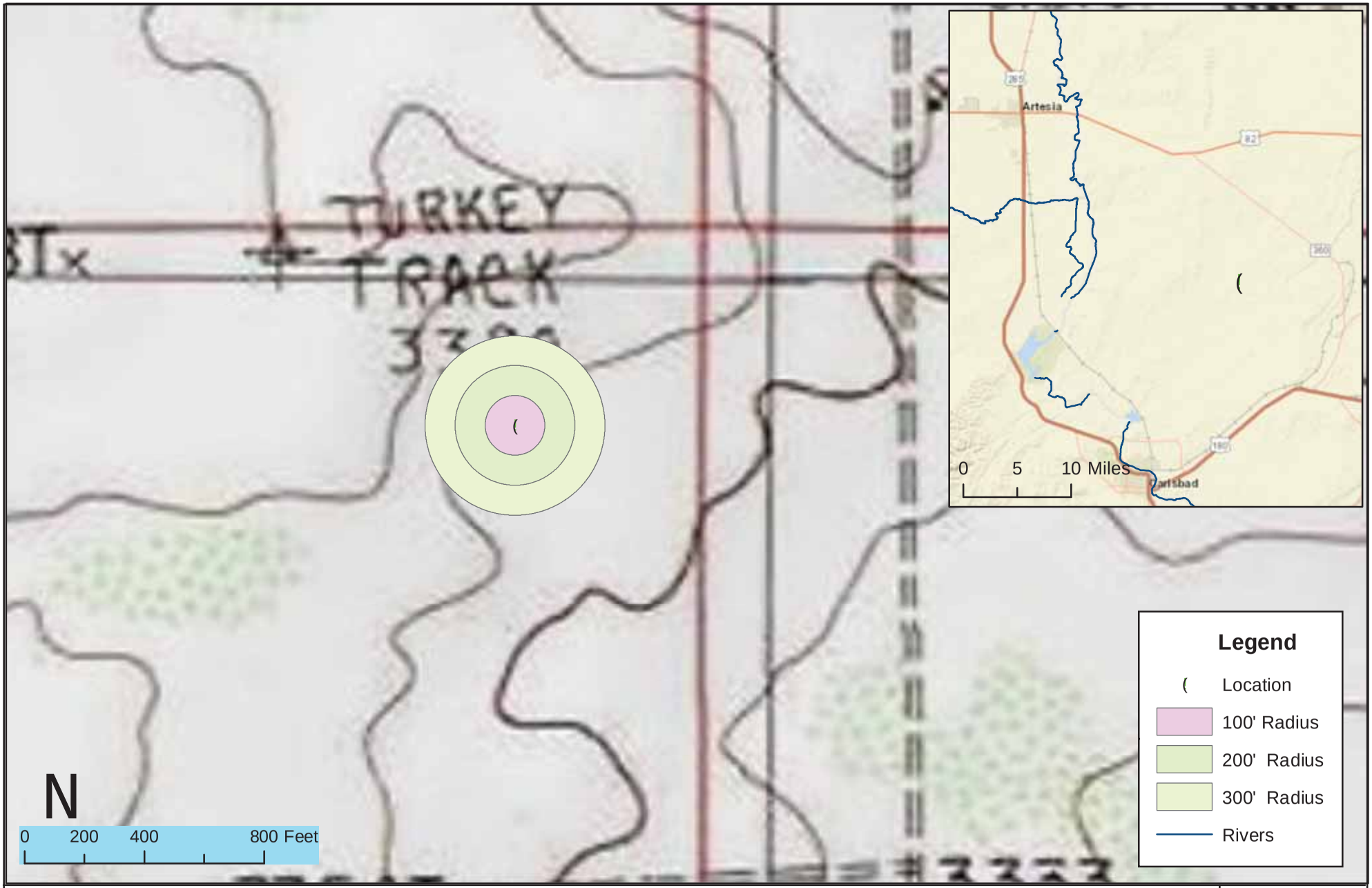
Drawn Lucas Middleton
Checked
Approved

201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
www.soudermiller.com
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*Surface Water Map*
*MARBOB STATE #001 Matador Resources*
*S: 19T19S R29 E, Eddy County New Mexico*

Figure 2

Revisions
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By: Date: Descr:

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*Site and Sample Location Map*
*MARBOB STATE #001 Matador Resources*
*S: 19T19S R29 E, Eddy County New Mexico*

Figure 3

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Lucas Middleton
Checked
Approved

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# TABLES

Table 2:
NMOCD Closure Criteria

Matador Resources Company
Marbob State #001 (RP#RP-4873-0)

| Site Information (19.15.29.11.A(2, 3, and 4) NMAC) | | Source/Notes |
|---|---|---|
| **Depth to Groundwater (feet bgs)** | 131 | USGS & OSE |
| **Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)** | 0 | USGS & OSE |
| **Hortizontal Distance to Nearest Significant Watercourse (ft)** | 11.3 | USGS 7.5' Topographic. Project is west of Pecos River |

| Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC) | | | | | | |
|---|---|---|---|---|---|---|
| **Depth to Groundwater** | | **Closure Criteria (units in mg/kg)** | | | | |
| | | **Chloride** *numerical limit or background, whichever is greater | **TPH** | **GRO + DRO** | **BTEX** | **Benzene** |
| < 50' BGS | | 600 | 100 | | 50 | 10 |
| 51' to 100' | | 10000 | 2500 | 1000 | 50 | 10 |
| >100' | X | 20000 | 2500 | 1000 | 50 | 10 |
| **Surface Water** | **yes or no** | **if yes, then** | | | | |
| <300' from continuously flowing watercourse or other significant watercourse? | NO | 600 | 100 | | 50 | 10 |
| <200' from lakebed, sinkhole or playa lake? | NO | | | | | |
| **Water Well or Water Source** | | | | | | |
| <500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? | NO | | | | | |
| <1000' from fresh water well or spring? | NO | | | | | |
| **Human and Other Areas** | | | | | | |
| <300' from an occupied permanent residence, school, hospital, institution or church? | NO | | | | | |
| within incorporated municipal boundaries or within a defined municipal fresh water well field? | NO | | | | | |
| <100' from wetland? | NO | | | | | |
| within area overlying a subsurface mine | NO | | | | | |
| within an unstable area? | YES** | | | | | |
| within a 100-year floodplain? | NO | | | | | |

**According to BLM Karst Potential Map. Please see additional Karst Survey attached

SMA #

Table 3:
Summary of Sample Results

Matador Resources Company
Marbob State #001 (RP#RP-4873-0)

| Sample ID | Sample Date | Depth (feet bgs) | Action Taken | BTEX mg/Kg | Benzene mg/Kg | GRO mg/Kg | DRO mg/Kg | MRO mg/Kg | Total TPH mg/Kg | Cl- mg/Kg | Cl- Field Screening PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NMOCD Closure Criteria | | | | 50 | 10 | | | | 2500 | 20000 | |
| BH1 | 7/10/2018 | 1 | Excavated | -- | -- | <5 | <10 | <50 | <65.0 | 1100 | -- |
| | 7/20/2018 | 1.5 | Excavated | -- | -- | -- | -- | -- | -- | -- | 1021 |
| | 7/10/2018 | 2 | Excavated | -- | -- | <5 | <10 | <50 | <65.0 | 1000 | -- |
| | 7/20/2018 | 2 | In-Situ | <0.207 | <0.023 | <4.6 | <9.8 | <49 | <63.4 | 650 | -- |
| | 7/10/2018 | 3 | In-Situ | -- | -- | <4.9 | <9.9 | <50 | <64.8 | 1400 | -- |
| | 7/20/2018 | 4 | In-Situ | -- | -- | -- | -- | -- | -- | 1300 | -- |
| | 7/20/2018 | 6 | In-Situ | <0.213 | <0.023 | <4.7 | <9.9 | <50 | 64.6 | 1100 | -- |
| | 11/5/2018 | 8 | In-Situ | -- | -- | -- | -- | -- | -- | 100 | -- |
| BH2 | 7/20/2018 | 1.5 | Excavated | <0.207 | <0.023 | -- | -- | -- | <20 | 920 | 577 |
| | 7/10/2018 | 2 | Excavated | -- | -- | <4.9 | <10 | <50 | <64.8 | 740 | 230 |
| | 7/20/2018 | 6 | In-Situ | -- | -- | -- | -- | -- | <20 | 780 | -- |
| | 11/5/2018 | 12 | In-Situ | -- | -- | -- | -- | -- | -- | 140 | -- |
| BH3 | 7/10/2018 | 1 | Excavated | -- | -- | <4.8 | <9.9 | <50 | <64.7 | 650 | -- |
| | 7/20/2018 | 1.5 | Excavated | -- | -- | -- | -- | -- | -- | -- | 3609 |
| | 7/10/2018 | 2 | Excavated | -- | -- | <4.7 | <9.9 | <50 | <64.6 | 480 | -- |
| | 7/20/2018 | 4 | Excavated | -- | -- | -- | -- | -- | <20 | 2000 | 1705 |
| | 7/20/2018 | 6 | In-Situ | -- | -- | -- | -- | -- | -- | 1700 | 966 |
| | 7/20/2018 | 8 | In-Situ | -- | -- | -- | -- | -- | <20 | 1100 | <237.4 |
| | 11/5/2018 | 10 | In-Situ | <0.096 | <0.024 | -- | -- | -- | -- | 550 | -- |
| BH4 | 7/20/2018 | 2 | Excavated | <0.212 | <0.024 | -- | -- | -- | <20 | 980 | 2667 |
| | 7/20/2018 | 3 | Excavated | -- | -- | -- | -- | -- | -- | 1500 | -- |
| | 7/20/2018 | 4 | Excavated | -- | -- | -- | -- | -- | -- | 2700 | 8575 |
| | 7/20/2018 | 6 | In-Situ | -- | -- | -- | -- | -- | <20 | 2000 | -- |
| | 11/5/2018 | 8 | In-Situ | -- | -- | -- | -- | -- | -- | 340 | -- |
| BH5 | 7/24/2018 | 3 | Excavated | <0.224 | <0.025 | <5.0 | <9.9 | <50 | <64.9 | 840 | <237.4 |
| | 11/5/2018 | 5 | In-Situ | -- | -- | -- | -- | -- | -- | 180 | -- |
| BH6 | 7/24/2018 | 3 | Excavated | -- | -- | -- | -- | -- | -- | -- | 5261 |
| | 7/24/2018 | 4 | Excavated | <0.216 | <0.024 | <4.8 | <10 | <50 | <64.8 | 2000 | -- |
| | 7/24/2018 | 6 | In-Situ | -- | -- | -- | -- | -- | -- | -- | 966 |
| | 11/5/2018 | 8 | In-Situ | -- | -- | -- | -- | -- | -- | 120 | -- |
| SW1 | 7/20/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 820 | 400 |
| | 11/5/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 67 | -- |
| SW2 | 7/20/2018 | -- | pipeline | -- | -- | -- | -- | -- | -- | 5800 | 5177 |
| | 11/5/2018 | -- | deferral | -- | -- | -- | -- | -- | -- | 2200 | -- |
| SW3 | 7/20/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 370 | 251 |
| SW4 | 7/20/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 420 | -- |
| SW5 | 7/20/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 230 | <237.4 |
| SW6 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 800 | 564 |
| | 11/5/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 310 | -- |
| SW7 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | <30 | <237.4 |
| SW8 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | <30 | <237.4 |
| SW9 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | <30 | <237.4 |
| SW10 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 860 | 168 |
| | 11/5/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | <30 | -- |
| SW11 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 73 | <237.4 |
| SW12 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | <30 | <237.4 |
| SW13 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | <30 | -- |
| SW14 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | 170 | <237.4 |
| SW15 | 7/24/2018 | -- | sidewall | -- | -- | -- | -- | -- | -- | <30 | <237.4 |

"--" = Not Analyzed
* = per Reclamation Standard (19.15.29.13.D(1) NMAC)



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# APPENDIX A
# FORM C141

RECEIVED



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

JUL 23 2018

DISTRICT II-ARTESIA O.C.D.

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# Release Notification and Corrective Action

nAB1821141249

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company Matador Resources Company 228937 | Contact Casey Snow |
| Address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 | Telephone No. (972) 371-5439 |
| Facility Name MARBOB STATE #001 | Facility Type SWD |

| | | |
|---|---|---|
| Surface Owner State of New Mexico | Mineral Owner State of New Mexico | API No. 30-015-26040 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| A | 19 | 19S | 29E | 660 | North | 680 | West | Eddy |

**Latitude** 32.65182 **Longitude** 104.1077576 NAD83

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release Produced Water | Volume of Release 326 bbls | Volume Recovered unknown |
| Source of Release ~~Illegal dumping~~ | Date and Hour of Occurrence 7/1/18 | Date and Hour of Discovery 6/29/18 ~4:00p.m.. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher | |
| By Whom? Lucas Middleton( SMA) | Date and Hour 7/2/18 @5:22pm * email | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*
Equipment failed causing the secondary containment to fill until the fluids spilled over the front of the battery running east and pooled on pad and pasture. The location was shut down and a vacuum truck was on site vacuuming all standing fluids

Describe Area Affected and Cleanup Action Taken.*
The release occurred within the tank battery. Two areas one North and one south allow for the liquid to run over the berm and down in to the pad and pasture. No waterways were reached. SMA will delineate and remediate the site as per NMOCD rules and regulations.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:

Printed Name: Casey Snow

Title: Manager Regulatory, Environmental, & Safety

E-mail Address: csnow@matadorresources.com

Date: 7/7/18 Phone:(972) 371-5439

## OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Mike Bratcher

Approval Date: 7/24/18 Expiration Date: N/A

Conditions of Approval: See attached

Attached # 224873

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/23/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP4873 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/23/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party: Matador Resources | OGRID: 228937 |
| Contact Name: John Hurt | Contact Telephone: 972-371-5200 |
| Contact email: Jhurt@matadorresources.com | Incident # *(assigned by OCD) 2RP4873/nAB1821141249* |
| Contact mailing address: 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 | |

## Location of Release Source

Latitude 32.65182 Longitude -104.1077576
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name: Marbob State SWD #001 | Site Type: SWD |
| Date Release Discovered: 6/29/18 | API# *(if applicable) 30-015-26040* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| A | 19 | 19S | 29E | EDDY |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☒ Produced Water | Volume Released (bbls) 326 | Volume Recovered (bbls) unknown |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☒ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release
There was an equipment failure causing the secondary containment to fill and overflow over the front of the battery running east and pooled on the pad and pasture.

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State of New Mexico
Oil Conservation Division



| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☒ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br>>25 bbls |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>Yes. By SMA to NMOCD District II on 7/2/18 via email | |

## 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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:
The location was shut down and a vacuum truck was on site vacuuming all standing fluids.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: John Hurt Title: RES Specialist

Signature: _____ Date: 11/8/18

email: Jhurt@matadorresources.com Telephone: 972-371-5200

**OCD Only**

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division



| | |
|---|---|
| Incident ID | NAB1821[illegible] |
| District RP | |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 131 (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☒ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☒ Yes ☐ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☒ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☒ Yes ☐ No |

PLEASE SEE APPENDIX C FOR CAVE AND KARST SURVEY

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist**: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 State of New Mexico
Oil Conservation Division



| | |
|---|---|
| Incident ID | NAB1821 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: John Hurt Title: RES Specialist

Signature: _____ Date: 11/8/18

email: Jhurt@matadorresources.com Telephone: 972-371-5200

**OCD Only**

Received by: Jocelyn Harimon Date: 12/07/2022

Form C-141 State of New Mexico
Oil Conservation Division



| | |
|---|---|
| Incident ID | NAB1821141249 |
| District RP | |
| Facility ID | |
| Application ID | |

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

There is not a picture of the open excavation as the work was completed before NMAC – RP 19.15.29.5 NMAC, 8/14/2018 was put into effect

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Hurt Title: RES Specialist

Signature: _____ Date: 11/6/18

email: Jhurt@matadorresources.com Telephone: 972-371-5200

**OCD Only**

Received by: Jocelyn Harimon Date: 12/07/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

# APPENDIX B
# NMOSE WELLS REPORT

# New Mexico Office of the State Engineer
# Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

| POD Number | POD Sub-basin Code | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP 00646 | CP | ED | 1 | 1 | 4 | 07 | 19S | 29E | 583155 | 3615551 | 2565 | 199 | 150 | 49 |

Average Depth to Water: **150 feet**

Minimum Depth: **150 feet**

Maximum Depth: **150 feet**

**Record Count:** 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 583676.79 **Northing (Y):** 3613040.29 **Radius:** 3000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# APPENDIX C

# CAVE & KARST SURFACE EVALUATION

SOUDER, MILLER & ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NEW MEXICO, 88220

MATADOR PRODUCTION COMPANY, MARBOB STATE #001 SWD PAD
SECTION 19, TOWNSHIP 19 SOUTH, RANGE 29 EAST
EDDY COUNTY, NEW MEXICO
CAVE AND KARST SURFACE EVALUATION

6 NOVEMBER 2018

Work was started and completed on 6 NOVEMBER. 2018.

The area in question was identified. The old spill area was determined. A 200 meter buffer was walked around the perimeter of the entire area and checked for cave and karst concerns. A thorough examination of the pad, which required a coordinated walking search of the entire old spill area was also completed looking for the possibility of any cave & karst concerns. No accounting as to migration of underground seepage, if any, was attempted.

Points were established using Garmin GPSMAP 64 hand-held GPS units with 13 S, NAD 83 as the datum. Point coordinates were determined by scaling the kmz provided.

50 meter wide grid lines were walked from East to West on 3613300N, 3613250N, 3613100N, 3613050N, 3612900N, & 3612850N starting at 583900E, the edge of an oil field road and ending at 583400E.
And
50 meter wide grid lines were walked from West to East on 3613200N, 3613150N, 3613300N, 3613250N, 3612800N, & 3612750N starting at 583400E and ending at 583900E, the edge of the oil field road.

**This pattern thoroughly covers the pad and the "spill" area.**

**These coordinates were determined:**

| *AREA CORNER COORDINATES* | |
|---|---|
| NW CORNER | 583634E, 3613102N |
| SW CORNER | 583628E, 3613030N |
| NE CORNER | 583729E, 3613083N |
| SE CORNER | 583723E, 3613021N |
| RUNOFF NW EDGE OF SPILL | 583728E, 3613046N |
| RUNOFF NE EDGE OF SPILL | 583721E, 3613023N |
| RUNOFF WEST SPILL EDGE | 583747E, 3613006N |
| RUNOFF EAST SPILL EDGE | 583751E, 3613010N |
| RUNOFF SW END OF SPILL | 583771E, 3612913N |
| RUNOFF SE END OF SPILL | 583784E, 3612914N |

**The 200 meter buffer around the affected area produced these findings:**

| FINDING | EUTM | NUTM | DESCRIPTION | TREND |
|---|---|---|---|---|
| #1 | 584990 | 3613250 | POWER POLES | NORTH TO SOUTH |
| #2 | 584900 | 3613250 | C/L ROAD | EAST TO WEST |
| #3 | 584722 | 3613250 | C/L LEASE RD | SOUTH TO NORTH |
| #4 | 584426 | 3613250 | ENTERPRISE BPL | EAST TO WEST |
| #5 | 584446 | 3613250 | STEEL SURF LINE | EAST TO WEST |
| #6 | 584445 | 3613250 | BPL | EAST TO WEST |
| #7 | 584394 | 3613150 | ENTERPRISE BPL | EAST TO WEST |
| #8 | 584240 | 3613150 | SURF POLY LINE | EAST TO WEST |
| #9 | 584488 | 3613237 | TURKEY TRACK USGS ELEV MARKER | |
| #10 | 584537 | 3613154 | MATADOR BPL | NORTH TO SOUTH |
| #11 | 584630 | 3613142 | DCP SURFACE VALVE | |
| #12 | 584650 | 3613142 | DCP BPL | NORTH TO SOUTH |
| #13 | 584650 | 3613152 | DCP BPL | EAST TO WEST |

| | | | |
|---|---|---|---|
| #14 | 584627 3613145 | BPL | NORTH TO SOUTH |
| #15 | 584729 3613151 | C/L LEASE ROAD | NORTH TO SOUTH |
| #16 | 584873 3613146 | HOLLY ENERGY BPL | N TO S |
| #17 | 584665 3613060 | 2" POLY BPL | |
| #18 | 584653 3613054 | MATADOR BPL | NORTH TO SOUTH |
| #19 | 584643 3613054 | PHILLIPS/DCP BPL | NORTH TO SOUTH |
| #20 | 584643 3613050 | TEST & CONTROL PANEL | |
| #21 | 584635 3613051 | MATADOR BPL | NORTH TO SOUTH |
| #22 | 584574 3613045 | SURF 4" POLY LINE | NE TO SW |
| #23 | 584458 3613037 | HOLLY ENERGY BPL | NW TO SE |
| #24 | 584564 3613943 | BPL | NW TO SE |
| #25 | 584564 3613919 | HOLLY ENERGY BPL | N TO S |
| #26 | 584604 3613810 | SURFACE METERING VALVE | |

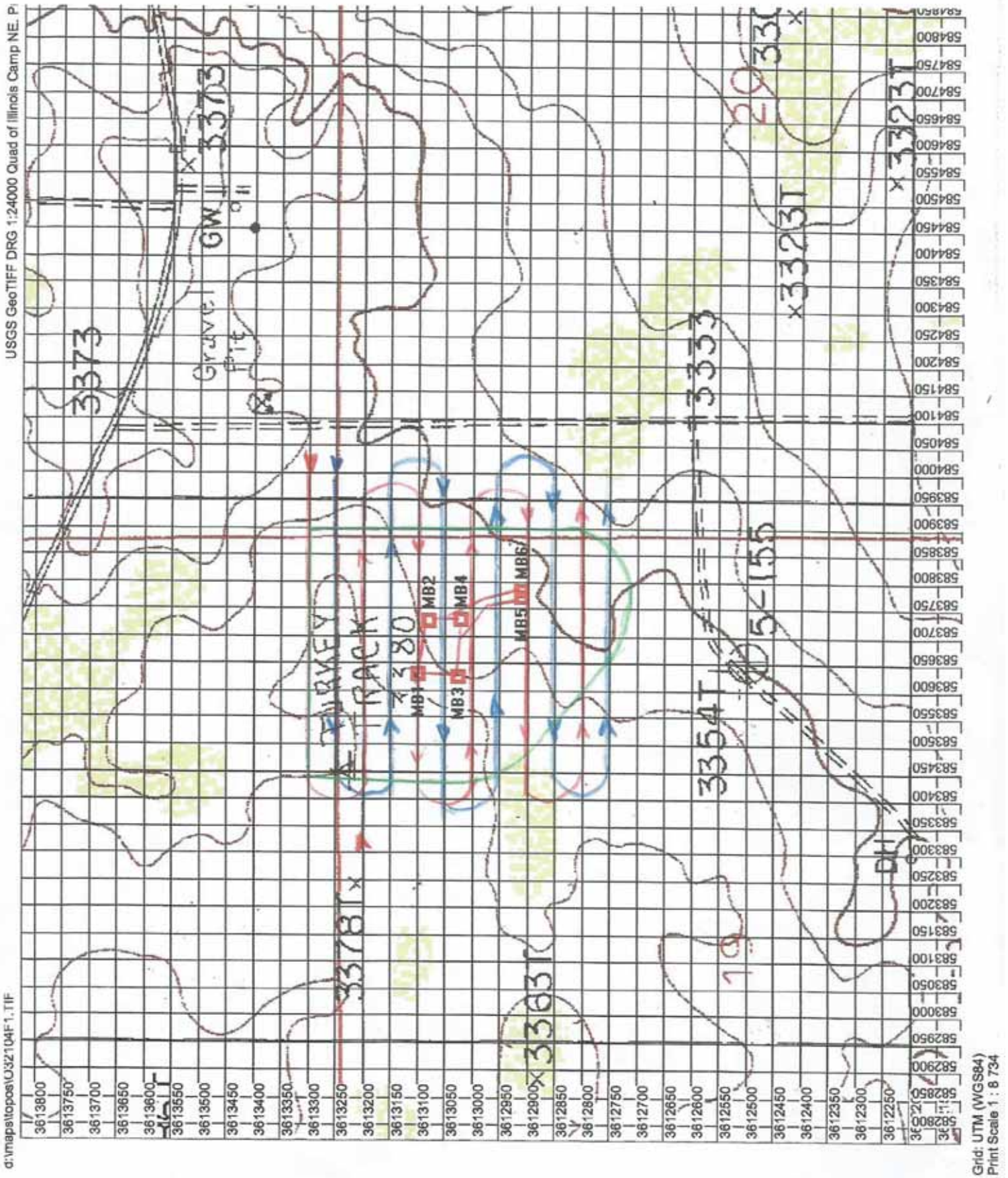
The area indicated on the kmz provided to us showing the spill area was thoroughly walked. No sign of the alleged spill could be found. No drainage to the subsurface was identified.

No cave or karst concerns were found within the 200 meter buffer zone.

This evaluation includes only features apparent on the surface and does not include features which may exist sub-surface.

Photographs were taken and are included in this report.

David S. Belski
Cave and Karst Surface Evaluation


USGS GeoTIFF DRG 1:24000 Quad of Illinois Camp NE. P
d:\maps\topos\U321Q4F1.TIF
3373
Gravel Pit
GW
3378
3363
3354
3333
3323
3280
MB1
MB2
MB3
MB4
MB5
MB6
Grid: UTM (WGS84)
Print Scale 1 : 8 734

# APPENDIX D

# LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

July 24, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Marbob State OrderNo.: 1807714

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/13/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **1807714**
Date Reported: **7/24/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** L1-1'
**Project:** Marbob State
**Collection Date:** 7/10/2018 2:05:00 PM
**Lab ID:** 1807714-001 **Matrix:** SOIL **Received Date:** 7/13/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 1100 | 30 | | mg/Kg | 20 | 7/18/2018 1:15:56 PM | 39266 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **lrm** | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/17/2018 4:31:04 PM | 39230 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/17/2018 4:31:04 PM | 39230 |
| Surr: DNOP | 106 | 70-130 | | %Rec | 1 | 7/17/2018 4:31:04 PM | 39230 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/16/2018 6:13:39 PM | 39201 |
| Surr: BFB | 95.6 | 15-316 | | %Rec | 1 | 7/16/2018 6:13:39 PM | 39201 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807714**
Date Reported: **7/24/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** L1-2'
**Project:** Marbob State
**Collection Date:** 7/10/2018 2:15:00 PM
**Lab ID:** 1807714-002 **Matrix:** SOIL **Received Date:** 7/13/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 1000 | 30 | | mg/Kg | 20 | 7/18/2018 1:28:20 PM | 39266 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **lrm** | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/17/2018 5:39:31 PM | 39230 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/17/2018 5:39:31 PM | 39230 |
| Surr: DNOP | 105 | 70-130 | | %Rec | 1 | 7/17/2018 5:39:31 PM | 39230 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/16/2018 6:36:59 PM | 39201 |
| Surr: BFB | 93.4 | 15-316 | | %Rec | 1 | 7/16/2018 6:36:59 PM | 39201 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807714**
Date Reported: **7/24/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** L1-3'
**Project:** Marbob State
**Collection Date:** 7/10/2018 2:20:00 PM
**Lab ID:** 1807714-003 **Matrix:** SOIL **Received Date:** 7/13/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **SRM** | |
| Chloride | 1400 | 75 | | mg/Kg | 50 | 7/19/2018 7:26:04 PM | 39266 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **lrm** | |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/17/2018 6:02:29 PM | 39230 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/17/2018 6:02:29 PM | 39230 |
| Surr: DNOP | 100 | 70-130 | | %Rec | 1 | 7/17/2018 6:02:29 PM | 39230 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/16/2018 7:00:22 PM | 39201 |
| Surr: BFB | 90.9 | 15-316 | | %Rec | 1 | 7/16/2018 7:00:22 PM | 39201 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807714**
Date Reported: **7/24/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** L2-2'
**Project:** Marbob State
**Collection Date:** 7/10/2018 2:45:00 PM
**Lab ID:** 1807714-004 **Matrix:** SOIL **Received Date:** 7/13/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 740 | 30 | | mg/Kg | 20 | 7/18/2018 2:42:48 PM | 39266 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **lrm** | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/17/2018 6:25:25 PM | 39230 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/17/2018 6:25:25 PM | 39230 |
| Surr: DNOP | 82.4 | 70-130 | | %Rec | 1 | 7/17/2018 6:25:25 PM | 39230 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/16/2018 7:23:43 PM | 39201 |
| Surr: BFB | 89.9 | 15-316 | | %Rec | 1 | 7/16/2018 7:23:43 PM | 39201 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807714**
Date Reported: **7/24/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** L3-1'
**Project:** Marbob State
**Collection Date:** 7/10/2018 3:00:00 PM
**Lab ID:** 1807714-005 **Matrix:** SOIL **Received Date:** 7/13/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 650 | 30 | | mg/Kg | 20 | 7/18/2018 2:55:13 PM | 39266 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/20/2018 11:51:33 AM | 39230 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/20/2018 11:51:33 AM | 39230 |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 7/20/2018 11:51:33 AM | 39230 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/16/2018 7:47:03 PM | 39201 |
| Surr: BFB | 87.9 | 15-316 | | %Rec | 1 | 7/16/2018 7:47:03 PM | 39201 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807714**
Date Reported: **7/24/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** L3-2'
**Project:** Marbob State
**Collection Date:** 7/10/2018 3:07:00 PM
**Lab ID:** 1807714-006 **Matrix:** SOIL **Received Date:** 7/13/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 480 | 30 | | mg/Kg | 20 | 7/18/2018 3:07:38 PM | 39266 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **lrm** | |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/17/2018 7:11:32 PM | 39230 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/17/2018 7:11:32 PM | 39230 |
| Surr: DNOP | 75.5 | 70-130 | | %Rec | 1 | 7/17/2018 7:11:32 PM | 39230 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/16/2018 8:10:22 PM | 39201 |
| Surr: BFB | 89.7 | 15-316 | | %Rec | 1 | 7/16/2018 8:10:22 PM | 39201 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT
## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807714**
***24-Jul-18***

**Client:** Souder, Miller & Associates
**Project:** Marbob State

| Sample ID | **MB-39266** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39266** | RunNo: | **52830** | | | | | |
| Prep Date: | **7/18/2018** | Analysis Date: | **7/18/2018** | SeqNo: | **1735435** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-39266** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39266** | RunNo: | **52830** | | | | | |
| Prep Date: | **7/18/2018** | Analysis Date: | **7/18/2018** | SeqNo: | **1735436** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.9 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807714**

***24-Jul-18***

**Client:** Souder, Miller & Associates
**Project:** Marbob State

| Sample ID | **MB-39230** | SampType: | **MBLK** | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39230** | RunNo: | **52741** | | | | | |
| Prep Date: | **7/16/2018** | Analysis Date: | **7/17/2018** | SeqNo: | **1732990** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 11 | | 10.00 | | 105 | 70 | 130 | | | |

| Sample ID | **1807714-001AMS** | SampType: | **MS** | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **L1-1'** | Batch ID: | **39230** | RunNo: | **52741** | | | | | |
| Prep Date: | **7/16/2018** | Analysis Date: | **7/17/2018** | SeqNo: | **1733532** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 48 | 10 | 49.85 | 0 | 96.7 | 62 | 120 | | | |
| Surr: DNOP | 4.7 | | 4.985 | | 94.7 | 70 | 130 | | | |

| Sample ID | **1807714-001AMSD** | SampType: | **MSD** | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **L1-1'** | Batch ID: | **39230** | RunNo: | **52741** | | | | | |
| Prep Date: | **7/16/2018** | Analysis Date: | **7/17/2018** | SeqNo: | **1733533** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 53 | 10 | 50.05 | 0 | 107 | 62 | 120 | 10.1 | 20 | |
| Surr: DNOP | 5.3 | | 5.005 | | 106 | 70 | 130 | 0 | 0 | |

| Sample ID | **LCS-39312** | SampType: | **LCS** | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39312** | RunNo: | **52847** | | | | | |
| Prep Date: | **7/19/2018** | Analysis Date: | **7/20/2018** | SeqNo: | **1738036** | Units: | **%Rec** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 4.1 | | 5.000 | | 82.5 | 70 | 130 | | | |

| Sample ID | **MB-39312** | SampType: | **MBLK** | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39312** | RunNo: | **52847** | | | | | |
| Prep Date: | **7/19/2018** | Analysis Date: | **7/20/2018** | SeqNo: | **1738037** | Units: | **%Rec** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 9.5 | | 10.00 | | 95.4 | 70 | 130 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807714**

***24-Jul-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State

| Sample ID | **MB-39201** | SampType: | **MBLK** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39201** | RunNo: | **52729** | | | | | |
| Prep Date: | **7/13/2018** | Analysis Date: | **7/16/2018** | SeqNo: | **1731622** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 91.0 | 15 | 316 | | | |

| Sample ID | **LCS-39201** | SampType: | **LCS** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39201** | RunNo: | **52729** | | | | | |
| Prep Date: | **7/13/2018** | Analysis Date: | **7/16/2018** | SeqNo: | **1731623** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 108 | 75.9 | 131 | | | |
| Surr: BFB | 980 | | 1000 | | 98.5 | 15 | 316 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1807714 RcptNo: 1

Received By: **Isaiah Ortiz** 7/13/2018 8:50:00 AM IO

Completed By: **Ashley Gallegos** 7/13/2018 11:01:39 AM AG

Reviewed By: AT 07/13/18 Labeled by: IO 7/13/18

## Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 10 (<2 or >12 unless noted)
Adjusted? 7/13/18
Checked by:

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.3 | Good | Yes | | | |

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain-of-Custody Record

Client: SMA - Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 5 day

Project Name: Marbob State

Project #:

Project Manager: Austin Weyant

Sampler: MRS

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.3-1.0(Cr) 1.3

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1807714 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/10/18 | 2:05 | soil | L1-1' | 4oz. | | -001 | | | X | | | | | X | | | | | | | | |
| | 2:15 | | L1-2' | | | -002 | | | X | | | | | X | | | | | | | | |
| | 2:20 | | L1-3' | | | -003 | | | X | | | | | X | | | | | | | | |
| | 2:45 | | L2-2' | | | -004 | | | X | | | | | Y | | | | | | | | |
| | 3:00 | | L3-1' | | | -005 | | | X | | | | | X | | | | | | | | |
| | 3:07 | | L3-2' | | | -006 | | | X | | | | | X | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 7/12/18 | 1400 | | | 7/12/18 | 1400 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 7/12/18 | 1900 | | courier | 7/13/18 | 850 |

Remarks: Matador.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

August 03, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Marbob State 1 OrderNo.: 1807E45

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/26/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 4-2
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 11:00:00 AM
**Lab ID:** 1807E45-001 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 418.1: TPH** | | | | | | Analyst: **CLP** | |
| Petroleum Hydrocarbons, TR | ND | 20 | | mg/Kg | 1 | 8/1/2018 | 39495 |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 980 | 30 | | mg/Kg | 20 | 8/1/2018 8:35:15 PM | 39521 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/31/2018 4:08:17 PM | 39455 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/31/2018 4:08:17 PM | 39455 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/31/2018 4:08:17 PM | 39455 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 7/31/2018 4:08:17 PM | 39455 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/31/2018 4:08:17 PM | 39455 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 4-4
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 11:10:00 AM
**Lab ID:** 1807E45-002 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 2700 | 150 | | mg/Kg | 100 | 8/2/2018 4:39:15 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 4-6
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 11:20:00 AM
**Lab ID:** 1807E45-003 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 418.1: TPH** | | | | | | Analyst: **CLP** | |
| Petroleum Hydrocarbons, TR | ND | 20 | | mg/Kg | 1 | 8/1/2018 | 39495 |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 2000 | 75 | | mg/Kg | 50 | 8/2/2018 4:51:40 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 4-3
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 11:30:00 AM
**Lab ID:** 1807E45-004 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 1500 | 75 | | mg/Kg | 50 | 8/2/2018 5:04:05 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 3-4
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 11:40:00 AM
**Lab ID:** 1807E45-005 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 418.1: TPH** | | | | | | Analyst: **CLP** | |
| Petroleum Hydrocarbons, TR | ND | 20 | | mg/Kg | 1 | 8/1/2018 | 39495 |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 2000 | 75 | | mg/Kg | 50 | 8/2/2018 5:16:30 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 3-6
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 11:50:00 AM
**Lab ID:** 1807E45-006 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 1700 | 75 | | mg/Kg | 50 | 8/2/2018 5:28:54 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 3-8
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 12:00:00 PM
**Lab ID:** 1807E45-007 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 418.1: TPH** | | | | | | Analyst: **CLP** | |
| Petroleum Hydrocarbons, TR | ND | 20 | | mg/Kg | 1 | 8/1/2018 | 39495 |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 1100 | 30 | | mg/Kg | 20 | 8/1/2018 10:39:21 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Detection Limit |
| W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 2-1.5
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 12:10:00 PM
**Lab ID:** 1807E45-008 **Matrix:** SOIL **Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 418.1: TPH** | | | | | | Analyst: **CLP** | |
| Petroleum Hydrocarbons, TR | ND | 20 | | mg/Kg | 1 | 8/1/2018 | 39495 |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 920 | 30 | | mg/Kg | 20 | 8/1/2018 10:51:45 PM | 39521 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/31/2018 4:31:44 PM | 39455 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 7/31/2018 4:31:44 PM | 39455 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 7/31/2018 4:31:44 PM | 39455 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 7/31/2018 4:31:44 PM | 39455 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/31/2018 4:31:44 PM | 39455 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1807E45**
Date Reported: **8/3/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 2-6
**Project:** Marbob State 1
**Collection Date:** 7/20/2018 12:10:00 PM
**Lab ID:** 1807E45-009
**Matrix:** SOIL
**Received Date:** 7/26/2018 11:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 418.1: TPH** | | | | | | Analyst: **CLP** | |
| Petroleum Hydrocarbons, TR | ND | 20 | | mg/Kg | 1 | 8/1/2018 | 39495 |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 780 | 30 | | mg/Kg | 20 | 8/1/2018 11:04:09 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E45**

***03-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **MB-39521** | SampType: | **MBLK** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39521** | RunNo: | **53124** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1748764** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-39521** | SampType: | **LCS** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39521** | RunNo: | **53124** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1748765** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.3 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E45**

***03-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **MB-39495** | SampType: | **MBLK** | TestCode: | **EPA Method 418.1: TPH** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39495** | RunNo: | **53125** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1747780** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum Hydrocarbons, TR | ND | 20 | | | | | | | | |

| Sample ID | **LCS-39495** | SampType: | **LCS** | TestCode: | **EPA Method 418.1: TPH** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39495** | RunNo: | **53125** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1747781** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum Hydrocarbons, TR | 130 | 20 | 100.0 | 0 | 127 | 84.7 | 129 | | | |

| Sample ID | **LCSD-39495** | SampType: | **LCSD** | TestCode: | **EPA Method 418.1: TPH** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS02** | Batch ID: | **39495** | RunNo: | **53125** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1747782** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum Hydrocarbons, TR | 120 | 20 | 100.0 | 0 | 124 | 84.7 | 129 | 2.05 | 20 | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E45**

***03-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **MB-39455** | SampType: | **MBLK** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745932** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID | **LCS-39455** | SampType: | **LCS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745933** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.93 | 0.025 | 1.000 | 0 | 93.5 | 77.3 | 128 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 96.5 | 79.2 | 125 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 94.8 | 80.7 | 127 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.7 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1807E45 RcptNo: 1

Received By: Isaiah Ortiz 7/26/2018 11:00:00 AM

Completed By: Ashley Gallegos 7/26/2018 5:53:13 PM

Reviewed By: 7/27/18

LB: ENM 7/30/18

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA Vials ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

ENM 7/30/18

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☑ No ☐ NA ☐

| | | | |
|---|---|---|---|
| Person Notified: | Austin W | Date: | 7/27/2018 |
| By Whom: | Erin Melendrez | Via: | ☑ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | Time diffrences between COC and labels | | |
| Client Instructions: | Use times listed on COC. -Per Melody | | |

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 2.2 | Good | Yes | | | |

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain-of-Custody Record

Client: SMA Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 5 day

Project Name: Marbob State #1

Project #:

Project Manager:

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.2 - 1.0 (CF) 2.2

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1807EA53 (07/26/18) | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions ($F,Cl,NO_3,NO_2,PO_4,SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7-20-18 | 1100 | Soil | BH 4-2 | 4oz | | -001 | X | | | X | | | | 5 | | | | | | | | |
| | 1110 | | BH 4-4 | | | -002 | | | | | | | | X | | | | | | | | |
| | 1120 | | BH 4-6 | | | -003 | | | | X | | | | X | | | | | | | | |
| | 1130 | | BH 4-3 | | | -004 | | | | | | | | X | | | | | | | | |
| | 1140 | | BH 3-4 | | | -005 | | | | X | | | | X | | | | | | | | |
| | 1150 | | BH 3-6 | | | -006 | | | | | | | | X | | | | | | | | |
| | 1200 | | BH 3-8 | | | -007 | | | | X | | | | X | | | | | | | | |
| | 1210 | | BH 2-1.5 | | | -008 | X | | | X | | | | X | | | | | | | | |
| | 1220 | | BH 2-6 | | | -009 | | | | X | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| | | | | 7/26/18 | 1300 |
| 7/26/18 | 1941 | | courier | 7/26/18 | 1100 |

Remarks: Mtader

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

August 06, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Marbob State 1 OrderNo.: 1807E44

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/26/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order: **1807E44**
Date Reported: **8/6/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates **Lab Order:** 1807E44
**Project:** Marbob State 1

**Lab ID:** 1807E44-001 **Collection Date:** 7/20/2018 9:00:00 AM
**Client Sample ID:** SW1 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 820 | 30 | | mg/Kg | 20 | 7/30/2018 6:10:37 PM | 39467 |

**Lab ID:** 1807E44-002 **Collection Date:** 7/20/2018 9:10:00 AM
**Client Sample ID:** SW2 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 5800 | 300 | | mg/Kg | 200 | 8/1/2018 11:04:27 AM | 39467 |

**Lab ID:** 1807E44-003 **Collection Date:** 7/20/2018 9:20:00 AM
**Client Sample ID:** SW3 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 370 | 30 | | mg/Kg | 20 | 7/30/2018 6:35:26 PM | 39467 |

**Lab ID:** 1807E44-004 **Collection Date:** 7/20/2018 9:30:00 AM
**Client Sample ID:** SW4 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 420 | 30 | | mg/Kg | 20 | 8/1/2018 7:08:22 PM | 39521 |

**Lab ID:** 1807E44-005 **Collection Date:** 7/20/2018 9:40:00 AM
**Client Sample ID:** SW5 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 230 | 30 | | mg/Kg | 20 | 8/1/2018 7:45:36 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |

**Analytical Report**
Lab Order: **1807E44**
Date Reported: **8/6/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates **Lab Order:** 1807E44
**Project:** Marbob State 1

**Lab ID:** 1807E44-007 **Collection Date:** 7/20/2018 10:00:00 AM
**Client Sample ID:** BH1-2 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 650 | 30 | | mg/Kg | 20 | 8/1/2018 7:58:00 PM | 39521 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 8/3/2018 10:55:39 AM | 39509 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 8/3/2018 10:55:39 AM | 39509 |
| Surr: DNOP | 94.1 | 50.6-138 | | %Rec | 1 | 8/3/2018 10:55:39 AM | 39509 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 8/1/2018 9:58:23 AM | 39506 |
| Surr: BFB | 94.0 | 15-316 | | %Rec | 1 | 8/1/2018 9:58:23 AM | 39506 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/1/2018 9:58:23 AM | 39506 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 8/1/2018 9:58:23 AM | 39506 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 8/1/2018 9:58:23 AM | 39506 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 8/1/2018 9:58:23 AM | 39506 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 8/1/2018 9:58:23 AM | 39506 |

**Lab ID:** 1807E44-008 **Collection Date:** 7/20/2018 10:10:00 AM
**Client Sample ID:** BH1-4 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 1300 | 75 | | mg/Kg | 50 | 8/2/2018 4:02:01 PM | 39521 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |

**Analytical Report**
Lab Order: **1807E44**
Date Reported: **8/6/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates **Lab Order:** 1807E44
**Project:** Marbob State 1

**Lab ID:** 1807E44-009 **Collection Date:** 7/20/2018 10:20:00 AM
**Client Sample ID:** BH1-6 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: | **JRR** |
| Chloride | 1100 | 30 | | mg/Kg | 20 | 8/1/2018 8:22:50 PM | 39521 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: | **TOM** |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 8/3/2018 11:20:16 AM | 39509 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 8/3/2018 11:20:16 AM | 39509 |
| Surr: DNOP | 97.1 | 50.6-138 | | %Rec | 1 | 8/3/2018 11:20:16 AM | 39509 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: | **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/31/2018 3:44:50 PM | 39455 |
| Surr: BFB | 93.1 | 15-316 | | %Rec | 1 | 7/31/2018 3:44:50 PM | 39455 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: | **NSB** |
| Methyl tert-butyl ether (MTBE) | ND | 0.095 | | mg/Kg | 1 | 7/31/2018 3:44:50 PM | 39455 |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/31/2018 3:44:50 PM | 39455 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/31/2018 3:44:50 PM | 39455 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/31/2018 3:44:50 PM | 39455 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 7/31/2018 3:44:50 PM | 39455 |
| Surr: 4-Bromofluorobenzene | 101 | 80-120 | | %Rec | 1 | 7/31/2018 3:44:50 PM | 39455 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **MB-39467** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39467** | RunNo: | **53064** | | | | | |
| Prep Date: | **7/28/2018** | Analysis Date: | **7/29/2018** | SeqNo: | **1745579** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-39467** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39467** | RunNo: | **53064** | | | | | |
| Prep Date: | **7/28/2018** | Analysis Date: | **7/29/2018** | SeqNo: | **1745580** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.3 | 90 | 110 | | | |

| Sample ID | **MB-39521** | SampType: | **MBLK** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39521** | RunNo: | **53124** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1748764** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-39521** | SampType: | **LCS** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39521** | RunNo: | **53124** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1748765** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.3 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **MB-39489** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39489** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/30/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747164** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.5 | | 10.00 | | 85.0 | 50.6 | 138 | | | |

| Sample ID | **LCS-39489** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39489** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/30/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747165** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.0 | | 5.000 | | 79.6 | 50.6 | 138 | | | |

| Sample ID | **MB-39509** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39509** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747957** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 7.6 | | 10.00 | | 75.9 | 50.6 | 138 | | | |

| Sample ID | **LCS-39509** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39509** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747958** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 10 | 50.00 | 0 | 96.9 | 70 | 130 | | | |
| Surr: DNOP | 3.7 | | 5.000 | | 73.3 | 50.6 | 138 | | | |

| Sample ID | **LCS-39543** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39543** | | RunNo: | **53150** | | | | |
| Prep Date: | **8/1/2018** | Analysis Date: | **8/3/2018** | | SeqNo: | **1749789** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 88.4 | 50.6 | 138 | | | |

| Sample ID | **MB-39543** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39543** | | RunNo: | **53150** | | | | |
| Prep Date: | **8/1/2018** | Analysis Date: | **8/3/2018** | | SeqNo: | **1749791** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.6 | | 10.00 | | 96.2 | 50.6 | 138 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **MB-39455** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39455** | | RunNo: | **53075** | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | | SeqNo: | **1745897** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 940 | | 1000 | | 94.1 | 15 | 316 | | | |

| Sample ID | **LCS-39455** | SampType: | **LCS** | | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39455** | | RunNo: | **53075** | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | | SeqNo: | **1745898** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 29 | 5.0 | 25.00 | 0 | 114 | 75.9 | 131 | | | |
| Surr: BFB | 1100 | | 1000 | | 108 | 15 | 316 | | | |

| Sample ID | **MB-39506** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39506** | | RunNo: | **53110** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1748282** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 950 | | 1000 | | 94.5 | 15 | 316 | | | |

| Sample ID | **LCS-39506** | SampType: | **LCS** | | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39506** | | RunNo: | **53110** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1748283** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 109 | 75.9 | 131 | | | |
| Surr: BFB | 1000 | | 1000 | | 103 | 15 | 316 | | | |

| Sample ID | **1807E44-007AMS** | SampType: | **MS** | | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **BH1-2** | Batch ID: | **39506** | | RunNo: | **53110** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1748285** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 33 | 5.0 | 24.95 | 0 | 133 | 77.8 | 128 | | | S |
| Surr: BFB | 1000 | | 998.0 | | 103 | 15 | 316 | | | |

| Sample ID | **1807E44-007AMSD** | SampType: | **MSD** | | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **BH1-2** | Batch ID: | **39506** | | RunNo: | **53110** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1748286** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **1807E44-007AMSD** | SampType: | **MSD** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **BH1-2** | Batch ID: | **39506** | RunNo: | **53110** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1748286** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 30 | 4.8 | 24.18 | 0 | 125 | 77.8 | 128 | 8.96 | 20 | |
| Surr: BFB | 1000 | | 967.1 | | 105 | 15 | 316 | 0 | 0 | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E44**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob State 1

| Sample ID | **MB-39455** | SampType: | **MBLK** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745932** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether (MTBE) | ND | 0.10 | | | | | | | | |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID | **LCS-39455** | SampType: | **LCS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745933** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether (MTBE) | 0.88 | 0.10 | 1.000 | 0 | 87.7 | 70.1 | 121 | | | |
| Benzene | 0.93 | 0.025 | 1.000 | 0 | 93.5 | 77.3 | 128 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 96.5 | 79.2 | 125 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 94.8 | 80.7 | 127 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.7 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

| Sample ID | **MB-39506** | SampType: | **MBLK** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39506** | RunNo: | **53110** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1748305** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 80 | 120 | | | |

| Sample ID | **LCS-39506** | SampType: | **LCS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39506** | RunNo: | **53110** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | SeqNo: | **1748306** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 91.4 | 77.3 | 128 | | | |
| Toluene | 0.95 | 0.050 | 1.000 | 0 | 94.7 | 79.2 | 125 | | | |
| Ethylbenzene | 0.93 | 0.050 | 1.000 | 0 | 93.1 | 80.7 | 127 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.0 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1807E44 RcptNo: 1

Received By: Isaiah Ortiz 7/26/2018 11:00:00 AM IO

Completed By: Ashley Gallegos 7/26/2018 5:41:44 PM AG

Reviewed By: LB 7/27/18

LB: ENM 7/30/18

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA Vials ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

ENM 7/30/18

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☑ No ☐ NA ☐

| | | | |
|---|---|---|---|
| Person Notified: | Austin W | Date: | 7/27/2018 |
| By Whom: | Erin Melendrez | Via: | ☑ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | Missing sample | | |
| Client Instructions: | Remove sample from COC. -Per Melody | | |

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 2.2 | Good | Yes | | | |

Released to Imaging: 1/22/2026 8:51:00 AM

Received by OCD: 1/15/2026 12:29:54 PM

# Chain-of-Custody Record

Client: SMA Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 5dy

Project Name: Marbob State #1

Project #:

Project Manager: Austin Weyant

Sampler: Lan

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.2-1.0 (cf) 2.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1807E44 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions ($F^-$, $NO_3$, $NO_2$, $PO_4$, $SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7-2018 | 9:00 | Soil | SW1 | 4oz | | -001 | | | | | | | | X | | | | | | | | |
| | 910 | | SW2 | | | -002 | | | | | | | | X | | | | | | | | |
| | 920 | | SW3 | | | -003 | | | | | | | | X | | | | | | | | |
| | 930 | | SW4 | | | -004 | | | | | | | | X | | | | | | | | |
| | 940 | | SW5 | | | -005 | | | | | | | | X | | | | | | | | |
| | 950 | | ~~BH1-1.5~~ | | | ~~-006~~ | | | | | | | | X | | EDM 7/30/18 | | | | | | |
| | 1000 | | BH1 2 | | | -007 | X | | X | | | | | X | | | | | | Per Melody | | |
| | 1010 | | BH1 4 | | | -008 | | | | | | | | X | | | | | | | | |
| | 1020 | V | BH1 6 | | | -009 | X | | X | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| | | | | 7/25/18 | 1300 |
| Date: 7/25/18 | Time: 1900 | Relinquished by: | Received by: Courier | 7/26/18 | 11:00 |

Remarks: Mardor

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

August 06, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Marbob SWD OrderNo.: 1807E43

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/26/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order: **1807E43**
Date Reported: **8/6/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates **Lab Order:** 1807E43
**Project:** Marbob SWD

**Lab ID:** 1807E43-001 **Collection Date:** 7/24/2018 11:00:00 AM
**Client Sample ID:** SW6 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **MRA** | |
| Chloride | 800 | 30 | | mg/Kg | 20 | 7/29/2018 3:47:27 PM | 39466 |

**Lab ID:** 1807E43-002 **Collection Date:** 7/24/2018 11:05:00 AM
**Client Sample ID:** SW7 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **MRA** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 7/29/2018 3:59:50 PM | 39466 |

**Lab ID:** 1807E43-003 **Collection Date:** 7/24/2018 11:10:00 AM
**Client Sample ID:** SW8 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **MRA** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 7/29/2018 7:43:13 PM | 39467 |

**Lab ID:** 1807E43-004 **Collection Date:** 7/24/2018 11:15:00 AM
**Client Sample ID:** SW9 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **MRA** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 7/29/2018 8:20:27 PM | 39467 |

**Lab ID:** 1807E43-005 **Collection Date:** 7/24/2018 11:30:00 AM
**Client Sample ID:** SW10 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 860 | 30 | | mg/Kg | 20 | 7/30/2018 4:31:20 PM | 39467 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |

**Analytical Report**
Lab Order: **1807E43**
Date Reported: **8/6/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates **Lab Order:** 1807E43
**Project:** Marbob SWD

**Lab ID:** 1807E43-006 **Collection Date:** 7/24/2018 11:45:00 AM
**Client Sample ID:** SW11 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 73 | 30 | | mg/Kg | 20 | 7/30/2018 4:43:44 PM | 39467 |

**Lab ID:** 1807E43-007 **Collection Date:** 7/24/2018 12:00:00 PM
**Client Sample ID:** SW12 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 7/30/2018 4:56:09 PM | 39467 |

**Lab ID:** 1807E43-008 **Collection Date:** 7/24/2018 12:15:00 PM
**Client Sample ID:** SW13 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 7/30/2018 5:08:33 PM | 39467 |

**Lab ID:** 1807E43-009 **Collection Date:** 7/24/2018 12:30:00 PM
**Client Sample ID:** SW14 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | 170 | 30 | | mg/Kg | 20 | 7/30/2018 5:45:47 PM | 39467 |

**Lab ID:** 1807E43-010 **Collection Date:** 7/24/2018 12:45:00 PM
**Client Sample ID:** SW15 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JRR** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 7/30/2018 5:58:12 PM | 39467 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |

**Analytical Report**
Lab Order: **1807E43**
Date Reported: **8/6/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates **Lab Order:** 1807E43
**Project:** Marbob SWD

**Lab ID:** 1807E43-011 **Collection Date:** 7/24/2018 1:00:00 AM
**Client Sample ID:** BH6-4 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: | **JRR** |
| Chloride | 2000 | 75 | | mg/Kg | 50 | 8/2/2018 12:55:49 AM | 39502 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: | **TOM** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 8/3/2018 10:06:35 AM | 39509 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 8/3/2018 10:06:35 AM | 39509 |
| Surr: DNOP | 89.7 | 50.6-138 | | %Rec | 1 | 8/3/2018 10:06:35 AM | 39509 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: | **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/31/2018 2:34:29 PM | 39455 |
| Surr: BFB | 96.3 | 15-316 | | %Rec | 1 | 7/31/2018 2:34:29 PM | 39455 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: | **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/31/2018 2:34:29 PM | 39455 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/31/2018 2:34:29 PM | 39455 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/31/2018 2:34:29 PM | 39455 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/31/2018 2:34:29 PM | 39455 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 7/31/2018 2:34:29 PM | 39455 |

**Lab ID:** 1807E43-012 **Collection Date:** 7/24/2018 1:15:00 AM
**Client Sample ID:** BH5-3 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: | **MRA** |
| Chloride | 840 | 30 | | mg/Kg | 20 | 8/1/2018 12:09:57 AM | 39502 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: | **TOM** |
| Diesel Range Organics (DRO) | 12 | 9.9 | | mg/Kg | 1 | 8/3/2018 10:31:08 AM | 39509 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 8/3/2018 10:31:08 AM | 39509 |
| Surr: DNOP | 110 | 50.6-138 | | %Rec | 1 | 8/3/2018 10:31:08 AM | 39509 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: | **NSB** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/31/2018 2:57:58 PM | 39455 |
| Surr: BFB | 97.7 | 15-316 | | %Rec | 1 | 7/31/2018 2:57:58 PM | 39455 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: | **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/31/2018 2:57:58 PM | 39455 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/31/2018 2:57:58 PM | 39455 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/31/2018 2:57:58 PM | 39455 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/31/2018 2:57:58 PM | 39455 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %Rec | 1 | 7/31/2018 2:57:58 PM | 39455 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |

**Analytical Report**
Lab Order: **1807E43**
Date Reported: **8/6/2018**

# Hall Environmental Analysis Laboratory, Inc.

| | | | |
|---|---|---|---|
| **CLIENT:** | Souder, Miller & Associates | **Lab Order:** | 1807E43 |
| **Project:** | Marbob SWD | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | | |
|---|---|---|---|---|---|
| **Qualifiers:** | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank | |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range | |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | Page 4 of 8 |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range | |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E43**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob SWD

| Sample ID | **MB-39466** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39466** | RunNo: | **53064** | | | | | |
| Prep Date: | **7/28/2018** | Analysis Date: | **7/29/2018** | SeqNo: | **1745549** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-39466** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39466** | RunNo: | **53064** | | | | | |
| Prep Date: | **7/28/2018** | Analysis Date: | **7/29/2018** | SeqNo: | **1745550** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.1 | 90 | 110 | | | |

| Sample ID | **MB-39467** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39467** | RunNo: | **53064** | | | | | |
| Prep Date: | **7/28/2018** | Analysis Date: | **7/29/2018** | SeqNo: | **1745579** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-39467** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39467** | RunNo: | **53064** | | | | | |
| Prep Date: | **7/28/2018** | Analysis Date: | **7/29/2018** | SeqNo: | **1745580** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.3 | 90 | 110 | | | |

| Sample ID | **MB-39502** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39502** | RunNo: | **53117** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **7/31/2018** | SeqNo: | **1747523** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-39502** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39502** | RunNo: | **53117** | | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **7/31/2018** | SeqNo: | **1747524** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.7 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E43**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob SWD

| Sample ID | **MB-39489** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39489** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/30/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747164** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.5 | | 10.00 | | 85.0 | 50.6 | 138 | | | |

| Sample ID | **LCS-39489** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39489** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/30/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747165** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.0 | | 5.000 | | 79.6 | 50.6 | 138 | | | |

| Sample ID | **MB-39509** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39509** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747957** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 7.6 | | 10.00 | | 75.9 | 50.6 | 138 | | | |

| Sample ID | **LCS-39509** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39509** | | RunNo: | **53063** | | | | |
| Prep Date: | **7/31/2018** | Analysis Date: | **8/1/2018** | | SeqNo: | **1747958** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 10 | 50.00 | 0 | 96.9 | 70 | 130 | | | |
| Surr: DNOP | 3.7 | | 5.000 | | 73.3 | 50.6 | 138 | | | |

| Sample ID | **LCS-39543** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39543** | | RunNo: | **53150** | | | | |
| Prep Date: | **8/1/2018** | Analysis Date: | **8/3/2018** | | SeqNo: | **1749789** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 88.4 | 50.6 | 138 | | | |

| Sample ID | **MB-39543** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39543** | | RunNo: | **53150** | | | | |
| Prep Date: | **8/1/2018** | Analysis Date: | **8/3/2018** | | SeqNo: | **1749791** | Units: | **%Rec** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.6 | | 10.00 | | 96.2 | 50.6 | 138 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E43**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob SWD

| Sample ID | **MB-39455** | SampType: | **MBLK** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745897** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 940 | | 1000 | | 94.1 | 15 | 316 | | | |

| Sample ID | **LCS-39455** | SampType: | **LCS** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745898** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 29 | 5.0 | 25.00 | 0 | 114 | 75.9 | 131 | | | |
| Surr: BFB | 1100 | | 1000 | | 108 | 15 | 316 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1807E43**

***06-Aug-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob SWD

| Sample ID | **MB-39455** | SampType: | **MBLK** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745932** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID | **LCS-39455** | SampType: | **LCS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **39455** | RunNo: | **53075** | | | | | |
| Prep Date: | **7/27/2018** | Analysis Date: | **7/30/2018** | SeqNo: | **1745933** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.93 | 0.025 | 1.000 | 0 | 93.5 | 77.3 | 128 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 96.5 | 79.2 | 125 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 94.8 | 80.7 | 127 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.7 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1807E43 RcptNo: 1

Received By: Isaiah Ortiz 7/26/2018 11:00:00 AM IG

Completed By: Ashley Gallegos 7/26/2018 5:37:43 PM AG

Reviewed By: [illegible] 7/27/18 labeled by: ENM 7/27/18

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA Vials ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____
ENM 7/27/18

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 2.2 | Good | Yes | | | |

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain-of-Custody Record

Client: SMA Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 5 day

Project Name: Marbob SWD

Project #:

Project Manager: Austin Weyant

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.2-1.0 (CF) 2.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1807E43 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F,Cl,$NO_3$,$NO_2$,$PO_4$,$SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7-24-18 | 11:00 | Soil | SW6 | 4oz | | -001 | | | | | | | | X | | | | | | | | |
| | 11:05 | | SW7 | | | -002 | | | | | | | | X | | | | | | | | |
| | 11:10 | | SW8 | | | -003 | | | | | | | | X | | | | | | | | |
| | 11:15 | | SW 9 | | | -004 | | | | | | | | X | | | | | | | | |
| | 11:30 | | SW 10 | | | -005 | | | | | | | | X | | | | | | | | |
| | 11:45 | | SW11 | | | -006 | | | | | | | | X | | | | | | | | |
| | 12:00 | | SW12 | | | -007 | | | | | | | | X | | | | | | | | |
| | 12:15 | | SW13 | | | -008 | | | | | | | | X | | | | | | | | |
| | 12:30 | | SW14 | | | -009 | | | | | | | | X | | | | | | | | |
| | 12:45 | | SW15 | | | -010 | | | | | | | | X | | | | | | | | |
| | 1:00 | | BH6-4' | | | -011 | X | | X | | | | | X | | | | | | | | |
| | 1:15 | | BH5-3 | | | -012 | X | | X | | | | | X | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| | | | | 7/25/18 | 1100 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 7/25/18 | 1900 | | T. Courier | 7/26/18 | 11:00 |

Remarks: Mated

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

November 12, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Marbob OrderNo.: 1811330

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 11/7/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** SW1
**Project:** Marbob
**Collection Date:** 11/5/2018 3:24:00 PM
**Lab ID:** 1811330-001 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | 67 | 30 | | mg/Kg | 20 | 11/8/2018 2:32:46 PM | 41426 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** SW2
**Project:** Marbob
**Collection Date:** 11/5/2018 2:00:00 PM
**Lab ID:** 1811330-002 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | 2200 | 75 | | mg/Kg | 50 | 11/8/2018 7:05:46 PM | 41426 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** SW6
**Project:** Marbob
**Collection Date:** 11/5/2018 1:30:00 PM
**Lab ID:** 1811330-003 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | 310 | 30 | | mg/Kg | 20 | 11/8/2018 2:57:35 PM | 41426 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** SW10
**Project:** Marbob
**Collection Date:** 11/5/2018 8:37:00 AM
**Lab ID:** 1811330-004 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/8/2018 3:09:59 PM | 41426 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 1-8
**Project:** Marbob
**Collection Date:** 11/5/2018 4:00:00 PM
**Lab ID:** 1811330-005 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | 100 | 30 | | mg/Kg | 20 | 11/8/2018 3:22:24 PM | 41426 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 2-12
**Project:** Marbob
**Collection Date:** 11/5/2018 3:07:00 PM
**Lab ID:** 1811330-006 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | 140 | 30 | | mg/Kg | 20 | 11/8/2018 3:34:49 PM | 41426 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 3-10
**Project:** Marbob
**Collection Date:** 11/5/2018 1:52:00 PM
**Lab ID:** 1811330-007 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | 550 | 30 | | mg/Kg | 20 | 11/8/2018 3:47:13 PM | 41426 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 11/8/2018 9:40:08 AM | 41412 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/8/2018 9:40:08 AM | 41412 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/8/2018 9:40:08 AM | 41412 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 11/8/2018 9:40:08 AM | 41412 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 11/8/2018 9:40:08 AM | 41412 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 4-8
**Project:** Marbob
**Collection Date:** 11/5/2018 12:22:00 PM
**Lab ID:** 1811330-008 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **smb** | |
| Chloride | 340 | 30 | | mg/Kg | 20 | 11/8/2018 4:49:16 PM | 41426 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 5-5
**Project:** Marbob
**Collection Date:** 11/5/2018 10:40:00 AM
**Lab ID:** 1811330-009 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **MRA** | |
| Chloride | 180 | 30 | | mg/Kg | 20 | 11/9/2018 11:59:32 AM | 41445 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1811330**
Date Reported: **11/12/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates
**Client Sample ID:** BH 6-8
**Project:** Marbob
**Collection Date:** 11/5/2018 10:07:00 AM
**Lab ID:** 1811330-010 **Matrix:** SOIL **Received Date:** 11/7/2018 8:50:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **MRA** | |
| Chloride | 120 | 30 | | mg/Kg | 20 | 11/9/2018 12:11:56 PM | 41445 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1811330**

***12-Nov-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob

| Sample ID | **MB-41426** | SampType: | **mblk** | | TestCode: | **EPA Method 300.0: Anions** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **41426** | | RunNo: | **55509** | | | | |
| Prep Date: | **11/8/2018** | Analysis Date: | **11/8/2018** | | SeqNo: | **1848594** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-41426** | SampType: | **lcs** | | TestCode: | **EPA Method 300.0: Anions** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **41426** | | RunNo: | **55509** | | | | |
| Prep Date: | **11/8/2018** | Analysis Date: | **11/8/2018** | | SeqNo: | **1848595** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.5 | 90 | 110 | | | |

| Sample ID | **MB-41445** | SampType: | **mblk** | | TestCode: | **EPA Method 300.0: Anions** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **41445** | | RunNo: | **55543** | | | | |
| Prep Date: | **11/9/2018** | Analysis Date: | **11/9/2018** | | SeqNo: | **1850235** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-41445** | SampType: | **lcs** | | TestCode: | **EPA Method 300.0: Anions** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **41445** | | RunNo: | **55543** | | | | |
| Prep Date: | **11/9/2018** | Analysis Date: | **11/9/2018** | | SeqNo: | **1850236** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 99.4 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1811330**

***12-Nov-18***

**Client:** Souder, Miller & Associates

**Project:** Marbob

| Sample ID | **MB-41412** | SampType: | **MBLK** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **41412** | RunNo: | **55519** | | | | | |
| Prep Date: | **11/7/2018** | Analysis Date: | **11/8/2018** | SeqNo: | **1848394** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 80 | 120 | | | |

| Sample ID | **LCS-41412** | SampType: | **LCS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **41412** | RunNo: | **55519** | | | | | |
| Prep Date: | **11/7/2018** | Analysis Date: | **11/8/2018** | SeqNo: | **1848395** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.94 | 0.025 | 1.000 | 0 | 93.6 | 80 | 120 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 97.5 | 80 | 120 | | | |
| Ethylbenzene | 0.98 | 0.050 | 1.000 | 0 | 97.8 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.8 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

| Sample ID | **1811330-007AMS** | SampType: | **MS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **BH 3-10** | Batch ID: | **41412** | RunNo: | **55519** | | | | | |
| Prep Date: | **11/7/2018** | Analysis Date: | **11/8/2018** | SeqNo: | **1848397** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1.0 | 0.023 | 0.9294 | 0 | 109 | 68.5 | 133 | | | |
| Toluene | 1.1 | 0.046 | 0.9294 | 0 | 116 | 75 | 130 | | | |
| Ethylbenzene | 1.1 | 0.046 | 0.9294 | 0 | 118 | 79.4 | 128 | | | |
| Xylenes, Total | 3.4 | 0.093 | 2.788 | 0 | 120 | 77.3 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9294 | | 113 | 80 | 120 | | | |

| Sample ID | **1811330-007AMSD** | SampType: | **MSD** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **BH 3-10** | Batch ID: | **41412** | RunNo: | **55519** | | | | | |
| Prep Date: | **11/7/2018** | Analysis Date: | **11/8/2018** | SeqNo: | **1848398** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1.1 | 0.024 | 0.9775 | 0 | 114 | 68.5 | 133 | 10.0 | 20 | |
| Toluene | 1.2 | 0.049 | 0.9775 | 0 | 121 | 75 | 130 | 9.16 | 20 | |
| Ethylbenzene | 1.2 | 0.049 | 0.9775 | 0 | 124 | 79.4 | 128 | 9.83 | 20 | |
| Xylenes, Total | 3.7 | 0.098 | 2.933 | 0 | 125 | 77.3 | 131 | 8.81 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9775 | | 107 | 80 | 120 | 0 | 0 | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1811330 RcptNo: 1

Received By: Victoria Zellar 11/7/2018 8:50:00 AM Victoria Zellar

Completed By: Ashley Gallegos 11/7/2018 9:45:54 AM

Reviewed By: VVZ 11/7/18

labeled by: IO 11/7/18

## Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑

IO 11/7/18

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by:

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 5.6 | Good | Yes | | | |

Released to Imaging: 1/22/2026 8:51:00 AM
Received by OCD: 1/15/2026 12:29:54 PM

# Chain-of-Custody Record

Client: SMA Carlsbad

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 2 day

Project Name: Marbob

Project #:

Project Manager: Austin Weyant

Sampler: MRS

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.6


**HALL ENVIRONMENTAL ANALYSIS LABORATORY**
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107


**Analysis Request**

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 1811330 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/5/18 | 3:24 | soil | SW1 | 402. | | -001 | | | | | | | ✓ | | | |
| | 2:00 | | SW2 | | | -002 | | | | | | | ✓ | | | |
| | 1:30 | | SW6 | | | -003 | | | | | | | ✓ | | | |
| | 8:37 | | SW10 | | | -004 | | | | | | | ✓ | | | |
| | 4:00 | | BH01-8 | | | -005 | | | | | | | ✓ | | | |
| | 3:07 | | BH02-12 | | | -006 | | | | | | | ✓ | | | |
| | 1:52 | | BH03-10 | | | -007 | ✓ | | | | | | ✓ | | | |
| | 12:22 | | BH04-8 | | | -008 | | | | | | | ✓ | | | |
| | 10:40 | | BH05-5 | | | -009 | | | | | | | ✓ | | | |
| ↓ | 10:07 | ↓ | BH06-8* | ↓ | | -010 | | | | | | | ✓ | | | |

| Date | Time | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| 11/6/18 | 1500 | | | | 11/6/18 | 1500 |
| 11/6/18 | 1900 | | Victoria Bella | Courier | 11/7/18 | 8:50 |

Remarks: Matador.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 543605

## QUESTIONS

| | |
|---|---|
| Operator:<br>MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | OGRID:<br>228937 |
| | Action Number:<br>543605 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| Incident ID (n#) | **nAB1821141249** |
| Incident Name | **NAB1821141249 MARBOB STATE #001 @ 30-015-26040** |
| Incident Type | **Produced Water Release** |
| Incident Status | **Remediation Closure Report Received** |
| Incident Well | **[30-015-26040] MARBOB STATE #001** |

| **Location of Release Source** | |
|---|---|
| *Please answer all the questions in this group.* | |
| Site Name | MARBOB STATE #001 |
| Date Release Discovered | 07/01/2018 |
| Surface Owner | State |

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

| **Nature and Volume of Release** | |
|---|---|
| *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.* | |
| Crude Oil Released (bbls) Details | *Not answered.* |
| Produced Water Released (bbls) Details | Cause: Equipment Failure \| Other (Specify) \| Produced Water \| Released: 326 BBL \| Recovered: 0 BBL \| Lost: 326 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 (continued)

| | |
|---|---|
| Operator:<br>MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | OGRID:<br>228937 |
| | Action Number:<br>543605 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Nature and Volume of Release (continued)** | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | **No, according to supplied volumes this does not appear to be a "gas only" report.** |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | **Yes** |
| Reasons why this would be considered a submission for a notification of a major release | **From paragraph A. "Major release" determine using:**<br>**(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.** |

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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 | *Not answered.* |

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Jason Touchet<br>Title: EHS Field Rep<br>Email: jason.touchet@matadorresources.com<br>Date: 01/15/2026 |

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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | OGRID:<br>228937 |
| | Action Number:<br>543605 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Site Characterization** | |
|---|---|
| *Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 51 and 75 (ft.) |
| What method was used to determine the depth to ground water | Direct Measurement |
| Did this release impact groundwater or surface water | No |
| **What is the minimum distance, between the closest lateral extents of the release and the following surface areas:** | |
| A continuously flowing watercourse or any other significant watercourse | Between ½ and 1 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1000 (ft.) and ½ (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | 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 1000 (ft.) and ½ (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 | High |
| 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 appropriate district office no later than 90 days after the release discovery date.* | |
| Requesting a remediation plan approval with this submission | Yes |
| *Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.* | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| **Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.) | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 31000 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 372 |
| GRO+DRO (EPA SW-846 Method 8015M) | 209 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |
| | |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| On what estimated date will the remediation commence | 12/01/2025 |
| On what date will (or did) the final sampling or liner inspection occur | 12/09/2025 |
| On what date will (or was) the remediation complete(d) | 12/23/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed | 0 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 0 |
| What is the estimated surface area (in square feet) that will be remediated | 10542 |
| What is the estimated volume (in cubic yards) that will be remediated | 196 |
| *These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.* | |
| *The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.* | |

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# State of New Mexico
# Energy, Minerals and Natural Resources
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# 1220 S. St Francis Dr.
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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | OGRID:<br>228937 |
| | Action Number:<br>543605 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| | |
|---|---|
| **Remediation Plan (continued)** | |
| *Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| **This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:** | |
| *(Select all answers below that apply.)* | |
| (Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for **off-site** disposal | *Not answered.* |
| **OR** which OCD approved well (API) will be used for **off-site** disposal | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, out-of-state | No |
| **OR** is the **off-site** disposal site, to be used, an NMED facility | Yes |
| What is the name of the NMED facility | Lea Land LLC |
| (Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms) | No |
| (In Situ) Soil Vapor Extraction | No |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | No |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | No |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | No |
| Ground Water Abatement pursuant to 19.15.30 NMAC | No |
| OTHER (Non-listed remedial process) | No |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Jason Touchet<br>Title: EHS Field Rep<br>Email: jason.touchet@matadorresources.com<br>Date: 01/15/2026 |
| *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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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | OGRID:<br>228937 |
| | Action Number:<br>543605 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Deferral Requests Only**<br>*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.* | |
|---|---|
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | OGRID:<br>228937 |
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**QUESTIONS**

| **Sampling Event Information** | |
|---|---|
| Last sampling notification (C-141N) recorded | **531352** |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | **12/09/2025** |
| What was the (estimated) number of samples that were to be gathered | **65** |
| What was the sampling surface area in square feet | **10541** |

| **Remediation Closure Request** | |
|---|---|
| *Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.* | |
| Requesting a remediation closure approval with this submission | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | **Yes** |
| Was this release entirely contained within a lined containment area | **No** |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes |
| What was the total surface area (in square feet) remediated | 10541 |
| What was the total volume (cubic yards) remediated | 244 |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes |
| What was the total surface area (in square feet) reclaimed | 4121 |
| What was the total volume (in cubic yards) reclaimed | 0 |
| Summarize any additional remediation activities not included by answers (above) | "The release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS08, collected at ground surface an 1-foot bgs, and vertically defined by borehole BH01 through BH09, BH10A, BH10B, and BH10C, collected at depths ranging from ground surface to 15 feet bgs. Excavation of impacted and waste containing soil was completed, and excavation floor samples FS01 through FS38, collected at depths ranging from 0.5 feet to 4 feet bgs, were all in compliance with the Site Closure Criteria and the reclamation requirement. Excavation sidewall samples SW01 through SW34, collected from ground surface to 4 feet bgs, were all in compliance with the strictest Closure Criteria. Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAB1821141249. " |
| *The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.* | |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Jason Touchet<br>Title: EHS Field Rep<br>Email: jason.touchet@matadorresources.com<br>Date: 01/15/2026 |

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## QUESTIONS (continued)

| Operator: | OGRID: |
|---|---|
| MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | 228937 |
| | Action Number:<br>543605 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

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

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## CONDITIONS

| Operator: | OGRID: |
|---|---|
| MATADOR PRODUCTION COMPANY<br>One Lincoln Centre<br>Dallas, TX 75240 | 228937 |
| | Action Number:<br>543605 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| rhamlet | We have received your Remediation Closure Report for Incident #NAB1821141249 MARBOB STATE #001, thank you. This Remediation Closure Report is approved. Please be advised that step-out sampling locations on pad that define the edge of the release will create the outline of the area that will need to be sampled for reclamation. The larger the step-out, the larger the eventual reclamation area that will need be to be sampled once the pad is abandoned and returned back to “land no longer in use.” The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. | 1/22/2026 |
| rhamlet | The “Environmental Karst Study Report – Matador Marbob State No. 001” will be accepted for record and placed in the incident files for future reference. The SDNP survey area contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary provided by the client. Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process. In New Mexico, karst surveys are generally valid for a period of three years due to the dynamic and unpredictable nature of karst areas. | 1/22/2026 |