



October 3, 2024

**New Mexico Oil Conservation Division**

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

**Re: Deferral Request  
Marbob State #2  
Incident Number nAPP2406626875  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document assessment, excavation, and soil sampling activities at the Marbob State #2 (Site). The Site is located in Unit P, Section 19, Township 19 South, Range 29 East, in Eddy County, New Mexico (32.64054°, -104.10738°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2406626875 until the Site is reconstructed and/or the well pad is abandoned.

## **BACKGROUND**

On March 5, 2024, a leak developed on one of the crude oil storage tanks located inside a partially lined earthen containment. As a result, approximately 84 barrels (bbls) of crude oil were released onto the caliche pad and the adjoining pasture; 40 bbls of crude oil were recovered with a vacuum truck. The release impacted the earthen containment, and an off-pad area approximately 1,577 square feet in size. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via the NMOCD web portal on March 6, 2024, and the release was assigned Incident Number nAPP2406626875. Matador reported the release to NMSLO via email on March 7, 2024.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-01231 POD1, with a depth to water measurement of 75 feet below

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ground surface (bgs). The well is located 1.73 miles north of the Site. All wells used to establish depth to groundwater are depicted on Figure 1 and the referenced well records are included in Appendix A. The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 1,237 feet north 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 not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

## DELINEATION SAMPLING ACTIVITIES

Beginning on March 18, 2024, Ensolum personnel were onsite to map the release extent and conduct delineation sampling within the release area. Preliminary soil assessment samples (SS01 through SS08) were collected at the ground surface (0 feet bgs) to verify the lateral extent of the release area. Five boreholes (BH01 through BH05) were advanced via hand auger to depths ranging from 1-foot to 5.5 feet bgs, to verify the vertical extent of the release area. Boreholes BH01 through BH03 were collected from the off-pad release area and boreholes BH04 and BH05 were collected on-pad at the edge of the earthen containment. Soil from the preliminary assessment samples and from the boreholes were field screened for chloride, TPH, and volatile organic compounds (VOCs) utilizing Mohr Method titration, a PetroFLAG® Soil Analyzer System and a Honeywell photoionization detector (PID), respectively.

Ensolum personnel returned to the Site on April 10, 2024, to recollect lateral delineation soil samples SS05 and SS07. Lateral delineation soil samples (SS05A, SS07A and SS09) were collected at ground surface and two boreholes (BH06 and BH07) were advanced inside the earthen containment to a terminal depth of 3 feet bgs.

Ensolum personnel returned to the Site on September 17, 2024, to collect lateral delineation soil sample SS10. Lateral delineation soil sample SS10 was collected at ground. Soil from the lateral delineation soil samples and from the boreholes were field screened for chloride and for TPH in the same manner as previously described above. All delineation soil sample locations are depicted on Figure 2. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B and a photographic log is included in Appendix C.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

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## EXCAVATION AND CONFIRMATION SAMPLING ACTIVITIES

Prior to beginning excavation activities at the Site, an archaeological survey was conducted by Beaver Creek Archaeology (NMCRIIS Activity numbers: 136902, 139264, and 151315). Due to a lack of cultural findings within 100 feet of the Site, and existing ground disturbance on pad, no additional cultural review was recommended. The project was approved to proceed as planned under the finding that no historical properties would be affected (see Appendix D). The survey determined the release area was negative for cultural properties, and thus, Matador has taken every reasonable effort to follow the Cultural Properties Protections Rule (CPP).

From August 12, 2024, through August 21, 2024, Ensolum personnel were onsite to oversee excavation of the off-pad release area and to excavate the accessible area inside the earthen containment to the maximum extent practicable (MEP). Excavation of the release area was completed with a backhoe, skid steer, and hand tools to depths ranging from ground surface to 7 feet bgs. Following the removal of impacted soil, Ensolum personnel collected 33, 5-point composite confirmation soil samples (FS01 through FS33) representing up to 200 square feet from the floor of the excavation and 13, 5-point composite confirmation (SW01 through SW13) from the sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Ensolum personnel advanced one borehole (BH08) within the area of requested deferral to a depth of 5 feet bgs. All samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Ensolum personnel returned to the Site on August 29, 2024, to further excavate confirmation soil samples areas FS27 and SW02 and to advance borehole BH04 to a depth of 6 feet bgs. Approximately 993 cubic yards of impacted soil was removed from the excavation and the final excavation extent measured approximately 4,813 square feet. The impacted soil removed during excavation activities was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing. Following deferral, Matador intends to complete remediation of the on-pad spill area, which is currently inaccessible, in accordance with the Site Closure Criteria and according to the reclamation requirement following major Site reconstruction or reclamation of the production pad.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS04, SS06, and SS08 collected at ground surface bgs were all in compliance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results indicated the TPH concentration exceeded the Site Closure Criteria in sample locations SS05 and SS07 collected at ground surface. Laboratory analytical results for boreholes BH01 through BH05 indicated all COC concentrations were in compliance with the Site Closure Criteria at 1-foot, 3 feet, 3.5 feet, and 4 feet bgs, respectively, with the exception of BH04, which exceeded the Site Closure Criteria for TPH at 5.5 feet bgs. Laboratory analytical results for SS05A, SS07A and SS09 collected at ground surface were all in compliance with the Site Closure Criteria. Boreholes BH06 and BH07, located inside the earthen containment, were both in compliance with the Site Closure Criteria at 3 feet bgs.

Laboratory analytical results for excavation floor confirmation samples collected off-pad (FS01 through FS15) and (FS27 through FS33) were all in compliance with the reclamation requirement except for FS27, which was advanced to a depth of 4.5 feet bgs. Excavation floor confirmation samples FS16 through FS20 exceed the Site Closure Criteria at 4 feet bgs and excavation floor samples FS21 through FS26 exceeded the Site Closure criteria at ground surface. Confirmation sidewall soil samples (SW01

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through SW13), collected at depths ranging from ground surface to 7 feet bgs, were all in compliance with the Site Closure Criteria except for SW02, which was further excavated. Borehole BH08 was advanced within the area of requested deferral to a depth of 5 feet bgs and laboratory analytical results indicated all COC concentrations were in compliance with the Site Closure Criteria at 5 feet bgs. Laboratory analytical results indicated BH04 was in compliance with the Site Closure Criteria at a terminal depth of 6 feet bgs; BH04 is also located inside the area of requested deferral.

Confirmation floor soil samples FS16 through FS20, collected at a depth of 4 feet bgs, and confirmation floor soil samples FS21 through FS26, collected at ground surface, are located in the direct vicinity of production equipment, which limits further excavation inside the earthen containment. Confirmation floor samples FS16 through FS26 are located within the area of requested deferral, which is vertically defined by boreholes BH08 and BH04 at 5 feet bgs and 6 feet bgs, respectively. The laboratory analytical results are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included in Appendix F. All sampling notifications to NMOCD are additional correspondence is included in Appendix G.

## RECLAMATION PLAN

The releases occurred on-pad and off-pad and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area 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 addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: Tonuco loamy fine sand, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on September 3, 2024;
- 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 Sandy Loam (SL) seed mix;
- 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 wattles 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;
- Backfilling of the excavation has already been completed.
- 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



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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 Spring/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; and
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

## DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment, process piping, the supports beneath them, and the production tanks preventing full excavation of impacted soil. The estimated area of requested deferral is approximately 2,032 square feet in size (approximately, 612 square feet was excavated to a depth of 4 feet bgs, and the remaining 1,420 square feet is at ground surface), and assuming a maximum depth of 6 feet based on the analytical results from delineation borehole BH04, a total of approximately 361 cubic yards of impacted soil remains in place. Soil in the vicinity of confirmation soil samples (FS16 through FS26) are included in the area of requested deferral due to the proximity of active production equipment and safety concerns regarding the potential to destabilize the equipment if the excavation is advanced. The deferral area and delineation soil samples are depicted on Figure 4.

Impacted soil is limited to the area beneath active production equipment and within the containment area, where remediation would require a major facility deconstruction. The release extent has been laterally defined by delineation soil samples SS01 through SS04, SS05A, SS06, SS07A, SS08, SS09 and SS10, collected at ground surface, and vertically defined by boreholes BH01 through BH08, collected at 1-foot, 3 feet, 3.5 feet, 6 feet, 4 feet, 3 feet, 3 feet, and 5 feet bgs, respectively.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 75 feet bgs, and all accessible impacted soil was removed during the excavation activities to the MEP. Any gross impacts were removed via scraping of the ground surface. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2406626875 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or [agiovengo@ensolum.com](mailto:agiovengo@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Ashley Giovengo  
Senior Scientist



Daniel R. Moir, P.G. (license in WY & TX)  
Senior Managing Geologist

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cc: Jason Touchet, Matador Production Company  
NMSLO

Appendices:






Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	NMSLO Cultural Resources Cover Sheet
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Notifications



FIGURES

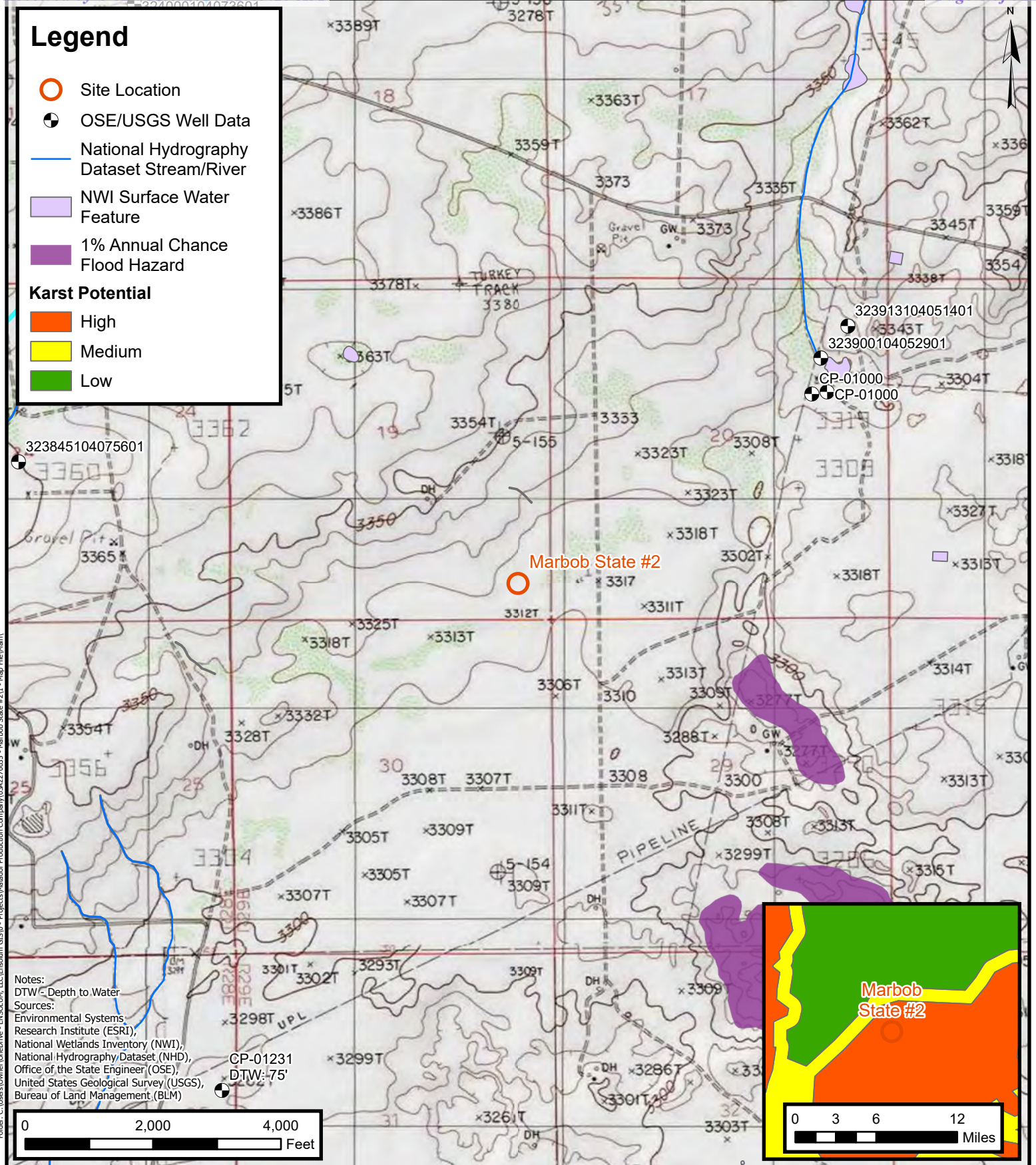
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## Legend

-  Site Location
-  OSE/USGS Well Data
-  National Hydrography Dataset Stream/River
-  NWI Surface Water Feature
-  1% Annual Chance Flood Hazard

## Karst Potential

- High
  - Medium
  - Low



## Site Receptor Map

**Matador Production Company**  
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 Incident Number: nAPP2406626875  
 Unit E, Section 19, T 19S, R 29E  
 Eddy County, New Mexico

## FIGURE

1



## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- × - Fence
- ▨ Release Extent
- ▭ Earthen Berm
- Production Equipment



## Delineation Soil Sample Locations

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 Eddy County, New Mexico

**FIGURE**  
**2**





**Legend**

- Confirmation Floor
- Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- Confirmation Floor Sample with Concentrations Exceeding Closure Criteria
- 
- Sidewall Aliquot - SW09
- Sidewall Aliquot - SW12
- Sidewall Aliquot - SW13
- X - Fence
- Earthen Berm
- Production Equipment
- Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

## Confirmation Soil Sample Locations

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 Eddy County, New Mexico

FIGURE

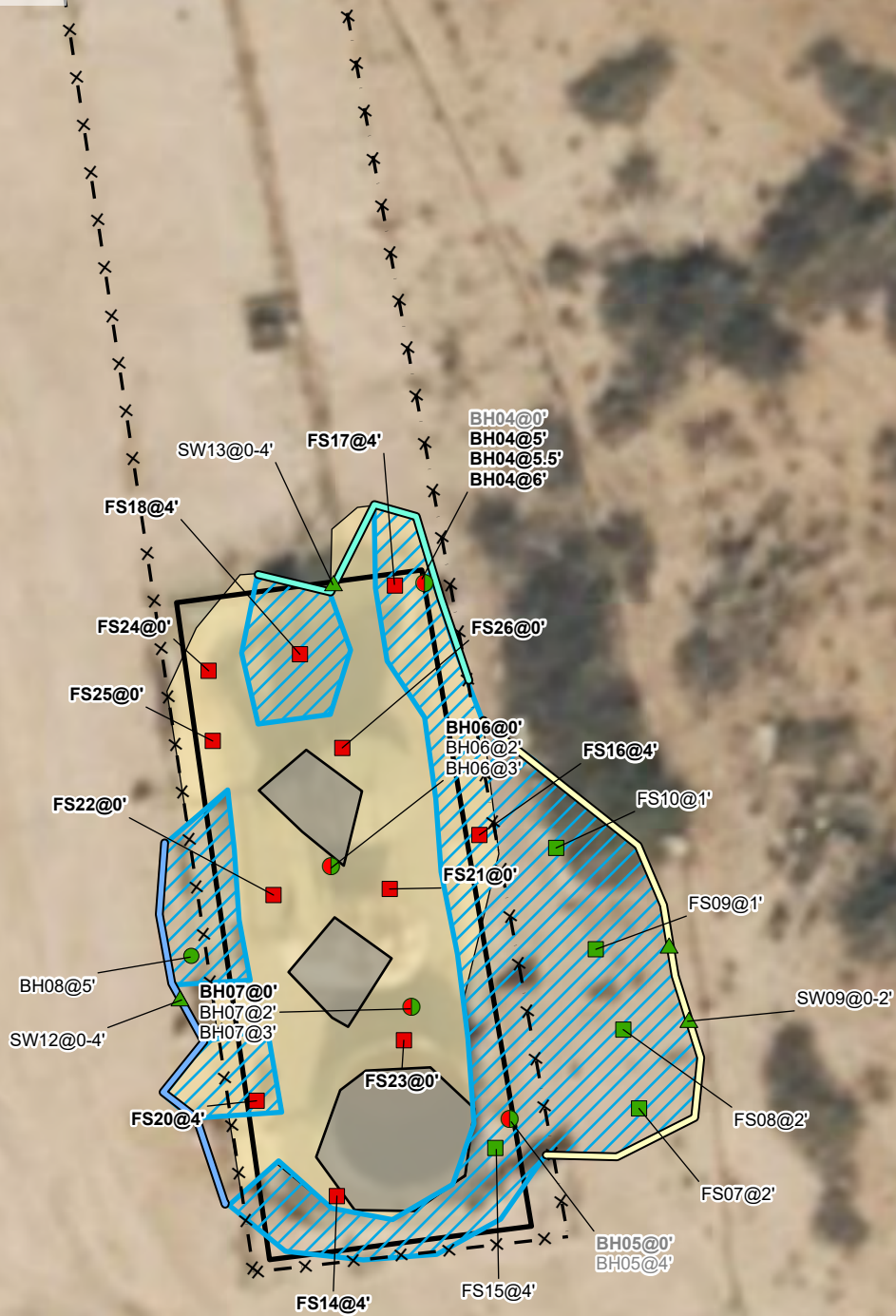
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**Legend**

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- Confirmation Floor Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Sidewall Aliquot - SW09
- Sidewall Aliquot - SW12
- Sidewall Aliquot - SW13
- × - Fence
- ▨ Excavation Extent
- ▭ Earthen Berm
- ▭ Production Equipment
- ▭ Deferral Area



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

## Area of Requested Deferral

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 Unit E, Section 19, T 19S, R 29E  
 Eddy County, New Mexico

**FIGURE**

**4**





TABLES



<b>TABLE 1</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> Marbob State #2 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Delineation Soil Samples</b>										
SS01	3/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	385
SS02	3/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	33.8
SS03	3/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	36.5
SS04	3/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	23.7
SS05	3/18/2024	0	<0.0250	<0.0500	<20.0	249	408	249	657	<20.0
SS05A	4/10/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
SS06	3/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
SS07	3/18/2024	0	<0.0250	<0.0500	<20.0	3,790	2,670	3,790	6,460	<20.0
SS07A	4/10/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
SS08	3/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	23.2
SS09	4/10/2024	0	<0.0250	<0.0500	<20.0	<25.0	73.5	<25.0	73.5	96.8
SS10	9/17/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	45.3
BH01	3/18/2024	0	<0.0250	0.375	<20.0	15,400	5,910	15,400	21,310	1,300
BH01	3/18/2024	1	<0.0250	<0.0500	<20.0	31.4	<50.0	31.4	31.4	360
BH02	3/18/2024	0	2.25	210.55	1,620	55,900	16,600	57,520	72,500	892
BH02	3/18/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	186
BH03	03/18/2024	0	0.291	66.841	721	35,800	11,400	36,521	47,921	<20.0
BH03	3/18/2024	3.5	<0.0250	0.0956	<20.0	289	126	289	415	234
BH04	3/18/2024	0	<0.0250	68.78	530	31,500	9,250	32,030	41,280	1,440
BH04	3/18/2024	5	<0.0250	0.2418	<20.0	347	137	347	484	39.1
BH04	3/18/2024	5.5	<0.0250	1.2619	<20.0	411	115	411	526	69.5
BH04	8/29/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	176

**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

&lt;: Laboratory Analytical result is less than reporting limit

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

\* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 1 - CONT'D SOIL SAMPLE ANALYTICAL RESULTS Marbob State #2 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
BH05	3/18/2024	0	0.787	79.697	458	25,700	6,580	26,158	32,738	3,250
BH05	3/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	433
BH06	45392	0	<0.0250	5.347	82.2	13500	5680	13582.2	19262.2	2800
BH06	4/10/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	231
BH06	4/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	312
BH07	45392	0	<0.0250	0.4385	<20.0	15800	9400	15800	25200	1270
BH07	4/10/2024	2	<0.0250	0.4385	<20.0	48.9	<50.0	48.9	48.9	<20.0
BH07	4/10/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	322
BH08	8/20/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	321

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 Table I Closure Criteria or reclamation standard where applicable.  
\* 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.

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





**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Marbob State #2  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Excavation Floor Soil Samples</b>										
FS01	8/12/2024	4	<0.0250	<0.0500	<20.0	31.0	<50.0	31.0	31.0	104
FS02	8/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.0
FS03	8/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.5
FS04	8/15/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	215
FS05	8/26/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	567
FS06	8/16/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	554
FS07	8/26/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
FS08	8/26/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	101
FS09	8/14/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	116
FS10	8/14/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	48.5
FS11	8/15/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	204
FS12	8/15/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.4
FS13	8/15/2024	2-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	307
FS14	8/21/2024	4	<0.0250	<0.0500	<20.0	503	170	503	673	142
FS15	8/21/2024	4	<0.0250	<0.0500	<20.0	98.5	<50.0	98.5	98.5	298
FS16	8/21/2024	4	<0.0250	2.46	53.7	2,240	859	2,294	<b>3,153</b>	<b>603</b>
FS17	8/21/2024	4	<0.0500	26.6	307	7,380	2,590	7,687	<b>10,277</b>	506
FS18	8/21/2024	4	<0.0250	3.86	34.1	4,050	1,340	4,084	<b>5,424</b>	<b>620</b>
FS19	8/21/2024	4	<0.0250	0.796	<20.0	1,570	497	1,570	<b>2,067</b>	422
FS20	8/21/2024	4	<0.0250	<0.0500	<20.0	859	427	859	<b>1,286</b>	<b>743</b>
FS21	8/21/2024	0	<0.0250	6.21	80.0	7,580	4,530	7,660	<b>12,190</b>	<b>1,020</b>
FS22	8/21/2024	0	<0.0250	3.04	64.6	4,170	1,710	4,235	<b>5,945</b>	<b>2,020</b>
FS23	8/21/2024	0	<0.0250	1.94	33.7	5,540	3,630	5,574	<b>9,204</b>	<b>890</b>



<b>TABLE 2 - CONT'D</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> Marbob State #2 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Excavation Floor Soil Samples</b>										
FS24	8/21/2024	0	<0.0250	2.58	58.4	3,270	1,230	3,328	<b>4,558</b>	<b>620</b>
FS25	8/21/2024	0	<0.0250	4.71	79.6	5,450	2,080	5,530	<b>7,610</b>	<b>1,090</b>
FS26	8/21/2024	0	<0.0250	1.49	21.2	9,530	2,780	9,551	<b>12,331</b>	<b>1,860</b>
FS27	8/21/2024	4	<0.0250	<0.0500	<20.0	71.6	53.6	71.6	<b>125</b>	113
FS27	8/29/2024	4.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.4
FS28	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	270
FS29	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	336
FS30	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	231
FS31	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	428
FS32	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	397
FS33	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	492

**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

&lt;: Laboratory Analytical result is less than reporting limit

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

\* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



<b>TABLE 3</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> Marbob State #2 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Sidewall Soil Samples</b>										
SW01	8/15/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	112
SW02	8/15/2024	0-2	<0.0250	<0.0500	<20.0	768	346.0	768	1,114	<20.0
SW02	8/29/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW03	8/21/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	194
SW04	8/21/2024	0-7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	413
SW05	8/21/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.3
SW06	8/21/2024	0-4	<0.0250	0.918	<20.0	40.8	<50.0	40.8	40.8	<20.0
SW07	8/21/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW08	8/21/2024	0-4	<0.0250	0.289	<20.0	<25.0	<50.0	<25.0	<50.0	104
SW09	8/21/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	22.2
SW10	8/21/2024	0-5	<0.0250	0.374	<20.0	<25.0	<50.0	<25.0	<50.0	568
SW11	8/21/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	329
SW12	8/21/2024	0-4	<0.0250	0.0576	<20.0	28.7	<50.0	28.7	<50.0	336
SW13	8/21/2024	0-4	<0.0250	<0.0500	<20.0	142	<50.0	142	<50.0	112

**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

&lt;: Laboratory Analytical result is less than reporting limit

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

\* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

--: Not Reported



## APPENDIX A

### Well Log and Record

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

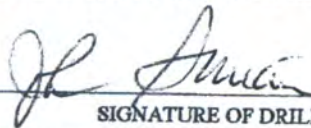
1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)				OSE FILE NUMBER(S) <b>CP-1231</b>			
	WELL OWNER NAME(S) <b>Winston Belland</b>				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS <b>1819-2 N Canal</b>				CITY <b>Coronado</b>		STATE <b>N.M.</b>	
					ZIP <b>88220</b>			
2. DRILLING & CASING INFORMATION	WELL LOCATION (FROM GPS)		DEGREES <b>32</b>		MINUTES <b>37</b>		SECONDS <b>07.81</b>	
	LATITUDE		N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE		W		* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE <b>Backskin Rd - 2 miles North</b>								
3. ANNULAR MATERIAL	LICENSE NUMBER <b>1654</b>		NAME OF LICENSED DRILLER <b>John Sieman</b>				NAME OF WELL DRILLING COMPANY <b>Sieman Drilling Co. Inc.</b>	
	DRILLING STARTED <b>10/21/13</b>		DRILLING ENDED <b>10/21/13</b>		DEPTH OF COMPLETED WELL (FT) <b>300.0</b>		BORE HOLE DEPTH (FT) <b>300.0</b>	
	DEPTH WATER FIRST ENCOUNTERED (FT) <b>200</b>		STATIC WATER LEVEL IN COMPLETED WELL (FT) <b>75.0</b>					
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)							
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	
	FROM	TO						
	<b>0</b>	<b>220</b>	<b>12"</b>	<b>PVC</b>	<b>Certalok</b>	<b>8"</b>	<b>DR-17</b>	<b>Blank</b>
	<b>220</b>	<b>300</b>	<b>12"</b>	<b>PVC</b>	<b>Certalok</b>	<b>8"</b>	<b>DR-17</b>	<b>10325</b>
DEPTH (feet bgl)		BORE HOLE DIAM. (inches)		LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)		
FROM	TO							
<b>0</b>	<b>20</b>	<b>12"</b>	<b>3/8 hole plug</b>	<b>10 Bags</b>	<b>gravity</b>			
<b>230</b>	<b>300</b>	<b>12"</b>	<b>3/8 per gravel</b>	<b>6 yds</b>	<b>gravity</b>			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	<b>CP-1231</b>	POD NUMBER		TRN NUMBER	<b>53.51101</b>
LOCATION	<b>EXPL</b>	<b>195.28E-36.2-4-4</b>			




DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
FROM	TO				
0	25	25	white caliche	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
25	35	10	Brown sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
35	145	110	white sandstone	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
175	200	25	Red sandstone & sand	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
200	300	100	gray dolomite w/ caverns	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	80
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
	300			<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="checkbox"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm): 80	
<input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					
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:					
none					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
none					
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 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME			John Surman DATE: 10/28/13		
OR OSE INTERNAL USE					
FILE NUMBER		POD NUMBER		WR-20 WELL RECORD & LOG (Version 06/08/2012) TRN NUMBER	





## APPENDIX B

### Lithologic Soil Sampling Logs


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		Sample Name: BH01		Date: 3/18/24				
		Site Name: Marbob State #2						
		Incident Number: nAPP2406626875						
		Job Number: 03A2270035						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Cole Burton		Method: Hand Auger		
Coordinates: 32.64067, -104.10718				Hole Diameter: 3"		Total Depth: 1'		
Comments: Field screening conducted with a PetroFLAG® Soil Analyzer System and PID for TPH and vapor, respectively.								
Moisture Content	TPH (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH01	0	0	CCHE	Caliche - Staining, odor
D		280	N	BH01	0.5	0.5	CCHE	Caliche - No staining
D	25		N	BH01	1	1	SP	Sand - Fine grained
Total Depth @ 1 foot bgs								


								Sample Name: BH02		Date: 3/18/24					
								Site Name: Marbob State #2							
								Incident Number: nAPP2406626875							
								Job Number: 03A2270035							
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Cole Burton		Method: Hand Auger					
Coordinates: 32.64061, -104.10720								Hole Diameter: 3"		Total Depth: 3'					
Comments: Field screening conducted with PID for vapor.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
M			Y	BH02	0	0	CCHE	Caliche - Staining, odor							
D			N	BH02	1	1	SP	Sand - Fine grained, No staining							
D		58	N	BH02	2	2									
D			N	BH02	3	3									
Total Depth @ 3 ft bgs															


								Sample Name: BH03		Date: 3/18/24					
								Site Name: Marbob State #2							
								Incident Number: nAPP2406626875							
								Job Number: 03A2270035							
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Cole Burton		Method: Hand Auger					
Coordinates: 32.64057, -104.10702								Hole Diameter: 3"		Total Depth: 3.5'					
Comments: Field screening conducted with a PetroFLAG® Soil Analyzer System and PID for TPH and vapor, respectively.															
Moisture Content	TPH (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
M			Y	BH03	0	0	SP	Sand - Fine grained, Stained, slight odor							
D			N	BH03	1	1	SP	Sand - Fine grained							
D		58	N	BH03	2	2	SP								
D	542		N	BH03	2.5		GY	Gypsum							
D			N	BH03	3.5		SP	Sand - Fine grained							
Total Depth @ 3.5 ft bgs															




								Sample Name: BH04		Date: 3/18/24	
								Site Name: Marbob State #2			
								Incident Number: nAPP2406626875			
								Job Number: 03A2270035			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.64083, -104.10723								Hole Diameter: 3"		Total Depth: 5.5'	
Comments: Comments: Field screening conducted with a PetroFLAG® Soil Analyzer System and PID for TPH and vapor, respectively.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH04	0	0	SP	Sand - Fine grained, stained, odor			
M			N	BH04	1	1	SP-SM	Sand, Silt - Dark brown, slight odor			
M		1,207	N	BH04	2	2	SP-SM				
M			N	BH04	3	3	SP-SM				
D			N	BH04	4	4	SP	Sand - Fine grained			
D			N	BH04	5.5	5	SP				
D	<162	25		BH04	6	6		Caliche - Lightly consolidated, medium to fine grained, red to white in color			
Total Depth @ 6 feet BGS.											

								Sample Name: BH05		Date: 3/18/24	
								Site Name: Marbob State #2			
								Incident Number: nAPP2406626875			
								Job Number: 03A2270035			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.64066, -104.10720								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with a PetroFLAG® Soil Analyzer System and PID for TPH and vapor, respectively.											
Moisture Content	TPH (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH05	0	0	CCHE	Caliche - Stained, odor			
M			N	BH05	1	1	SP	Sand - Fine grained			
D		158	N	BH05	2	2	SP				
D	542		N	BH05	3	3	SP				
D			N	BH05	4	4	SP				
Total Depth @ 4 ft bgs											

								Sample Name: BH06		Date: 4/10/24	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Site Name: Marbob State #2			
								Incident Number: nAPP2406626875			
								Job Number: 03A2270035			
Coordinates: 32.64074, -104.10727								Logged By: Cole Burton		Method: Hand Auger	
								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with the Mohr method titration and a PetroFLAG® Soil Analyzer System for chloride and TPH, respectively. Chloride test performed with 1:1 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			
M			Y	BH06	0	0	CCHE	Caliche - Stained, odor			
M			N	BH06	1	1	SP	Sand - Fine grained			
D			N	BH06	2	2	SP				
D	500		N	BH06	3	3	SP				
D	400	17	N	BH06	4	4	SP				
Total Depth @ 4 ft bgs											

								Sample Name: BH07		Date: 4/10/24	
								Site Name: Marbob State #2			
								Incident Number: nAPP2406626875			
								Job Number: 03A2270035			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.64070, -104.10724								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with the Mohr method titration and a PetroFLAG® Soil Analyzer Sytem for chloride and TPH, respectively. Chloride test performed with 1:1 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			
M			Y	BH07	0	0	CCHE	Caliche - Stained, odor			
M			N	BH07	1	1	SP	Sand - Fine grained			
D			N	BH07	2	2	SP				
D	400		N	BH07	3	3	SP				
D	400	90	N	BH07	4	4	SP				
Total Depth @ 4 ft bgs											



								Sample Name: BH08		Date: 4/20/24	
								Site Name: Marbob State #2			
								Incident Number: nAPP2406626875			
								Job Number: 03A2270035			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Cchad Hamilton		Method: Hand Auger	
Coordinates: 32.640715, -104.107316								Hole Diameter: 3"		Total Depth: 5'	
Comments: Field screening conducted with the Mohr method titration and a PetroFLAG® Soil Analyzer Sytem for chloride and TPH, respectively. Chloride test performed with 1:1 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		Excavation Area			
						1					
						2					
						3					
M	633		N	BH08	4	4	SP	Sand - Fine grained			
M	409	18	N	BH08	5	5	SP				
Total Depth @ 5 ft bgs											



## APPENDIX C

### Photographic Log

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# Photographic Log

Matador Production Company

Marbob State #2

Incident Number: nAPP2406626875



Photograph 1

Date: 03/05/2024

Description: Site Signage

View: Northwest



Photograph 2

Date: 03/05/2024

Description: Initial Release

View: South



Photograph 3

Date: 03/05/2024

Description: Initial Release

View: North



Photograph 4

Date: 03/05/2024

Description: Initial Release

View: East





# Photographic Log

Matador Production Company

Marbob State #2

Incident Number: nAPP2406626875



Photograph 5

Date: 03/18/2024

Description: Delineation Sampling

View: West



Photograph 6

Date: 03/18/2024

Description: Delineation Sampling

View: South



Photograph 7

Date: 04/10/2024

Description: Delineation Sampling

View: Southwest



Photograph 8

Date: 04/10/2024

Description: Delineation Sampling

View: East





# Photographic Log

Matador Production Company

Marbob State #2

Incident Number: nAPP2406626875



Photograph 9

Date: 08/12/2024

Description: Excavation Activities

View: Northwest



Photograph 10

Date: 08/12/2024

Description: Excavation Activities

View: East



Photograph 11

Date: 08/13/2024

Description: Excavation Activities

View: South



Photograph 12

Date: 08/13/2024

Description: Excavation Activities

View: Northwest





# Photographic Log

Matador Production Company

Marbob State #2

Incident Number: nAPP2406626875

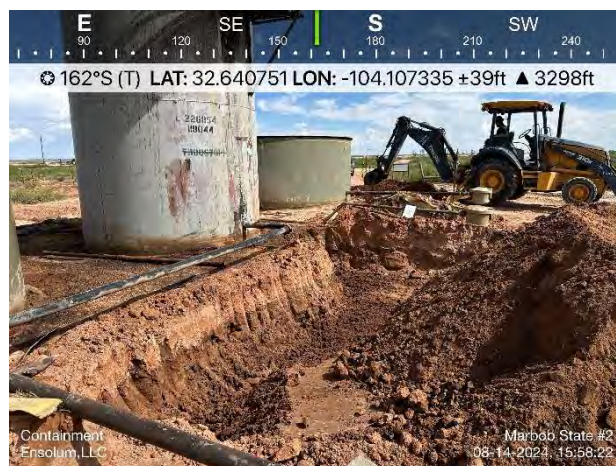


Photograph 13

Date: 08/14/2024

Description: Excavation Activities

View: North

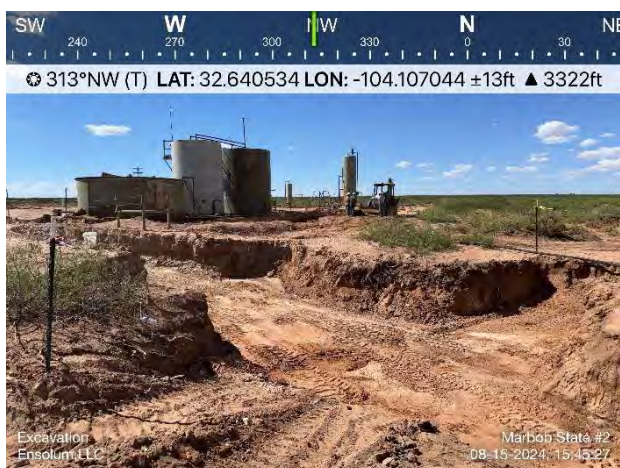


Photograph 14

Date: 08/14/2024

Description: Excavation Activities

View: South



Photograph 15

Date: 08/15/2024

Description: Excavation Activities

View: Northwest



Photograph 16

Date: 08/15/2024

Description: Excavation Activities

View: South





# Photographic Log

Matador Production Company

Marbob State #2

Incident Number: nAPP2406626875



Photograph 17

Date: 08/16/2024

Description: Excavation Activities

View: East



Photograph 18

Date: 08/16/2024

Description: Excavation Activities

View: East



Photograph 19

Date: 08/19/2024

Description: Excavation Activities

View: North



Photograph 20

Date: 08/19/2024

Description: Excavation Activities

View: East





# Photographic Log

Matador Production Company

Marbob State #2

Incident Number: nAPP2406626875



Photograph 21

Date: 08/20/2024

Description: Excavation Activities

View: East



Photograph 22

Date: 08/20/2024

Description: Excavation Activities

View: Northwest



Photograph 23

Date: 08/19/2024

Description: Excavation Activities

View:



Photograph 24

Date: 08/19/2024

Description: Excavation Activities

View:



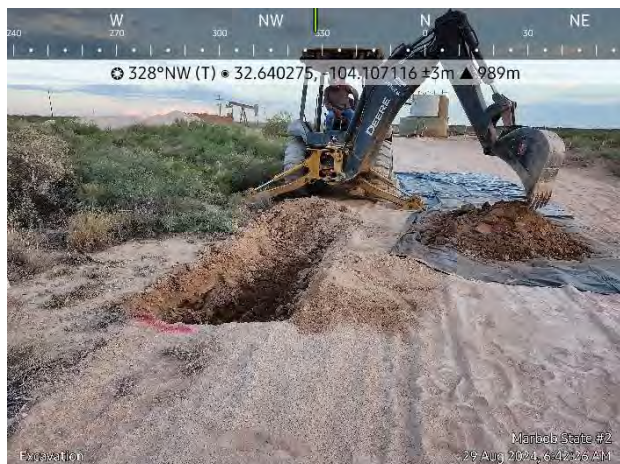


# Photographic Log

Matador Production Company

Marbob State #2

Incident Number: nAPP2406626875



Photograph 25

Date: 08/29/2024

Description: Excavation Activities

View: Northwest



Photograph 26

Date: 08/29/2024

Description: Vertical Delineation

View: South



Photograph 27

Date: 08/29/2024

Description: Excavation Activities

View: Northwest



Photograph 28

Date: 08/29/2024

Description: Excavation Activities

View: West



## APPENDIX D

### NMSLO Cultural Resources Cover Sheet

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

## NMSLO Cultural Resources Cover Sheet Exhibit

**NMCRIS Activity Number:**

(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:**

**Project Details:**

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

**Project Location:**

County(ies):

PLSS/Section/Township/Range):

---

**For NMSLO Agency Use Only:**

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

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*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.*

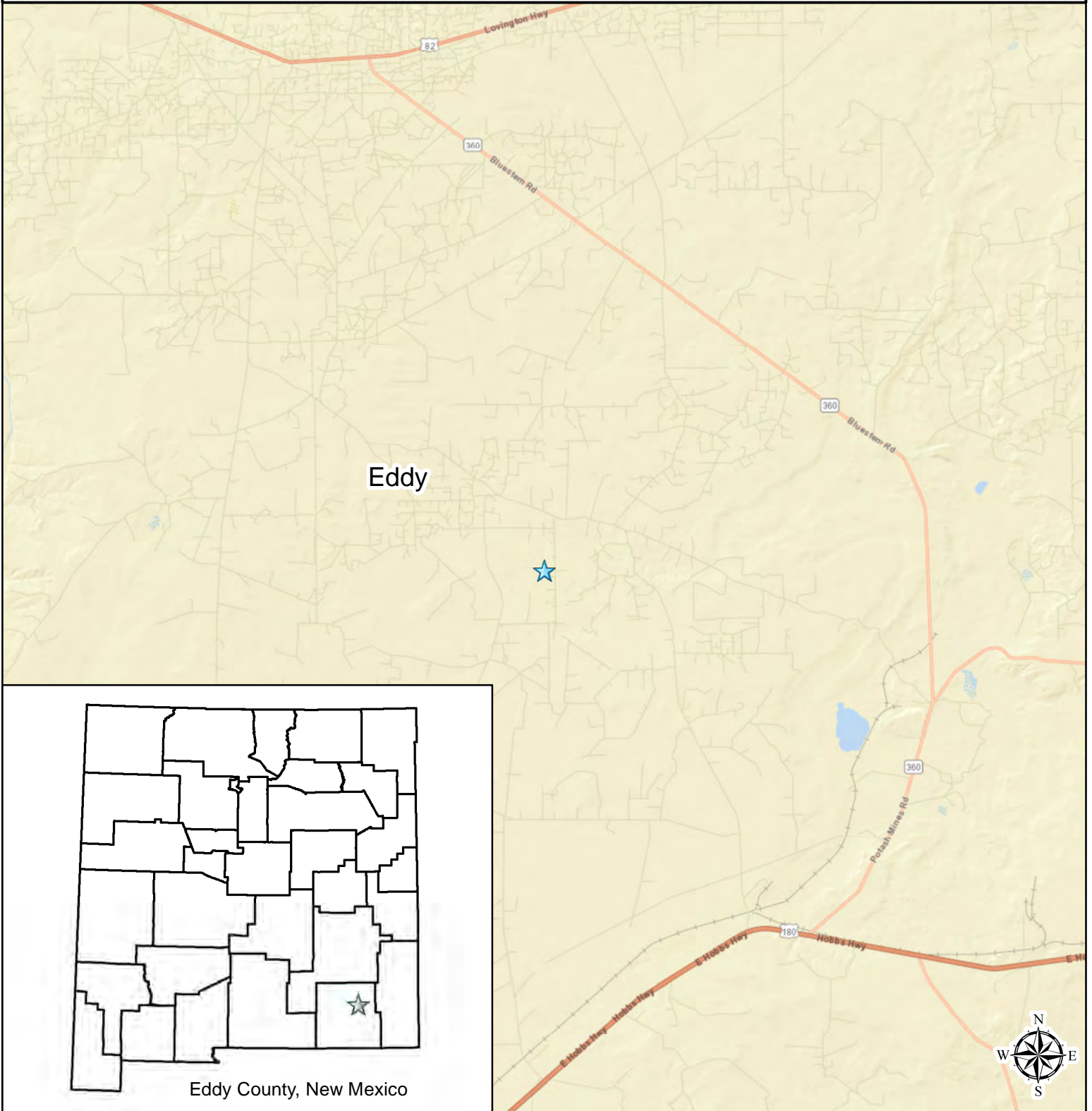
Form Revised 12 22





# Beaver Creek ARCHAEOLOGY

Marbob State #2  
Ensolum, LLC  
T19S R29E Sec. 19  
Illinois Camp NE(1985) Quad. Map  
Upper Pecos-Black Drainage  
Eddy County, New Mexico



## Legend

★ Project Location



Base Map: USGS 7.5'  
Scale: 1:180,000  
UTM NAD83 Zone 13





# Beaver Creek

## ARCHAEOLOGY

Marbob State #2

Ensolum, LLC

T19S R29E Sec. 19

Illinois Camp NE(1985) Quad. Map

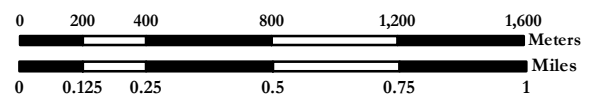
Upper Pecos-Black Drainage

Eddy County, New Mexico



### Legend

- Survey Area (2.23 Acres)
- Workspace Limits (0.13 Acres)



Base Map: USGS 7.5'

Scale: 1:24,000

UTM NAD83 Zone 13

MS



## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E403187

Job Number: 23052-0001

Received: 3/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/27/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 3/27/24

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



Project Name: Marbob State #2  
Workorder: E403187  
Date Received: 3/20/2024 9:51:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/20/2024 9:51:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
Client Representative  
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Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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## Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/27/24 15:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E403187-01A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SS02-0'	E403187-02A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SS03-0'	E403187-03A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SS04-0'	E403187-04A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SS05-0'	E403187-05A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SS06-0'	E403187-06A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SS07-01	E403187-07A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH01-0'	E403187-08A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH01-1'	E403187-09A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH02-0'	E403187-10A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH02-3'	E403187-11A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH03-0'	E403187-12A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH03-3.5'	E403187-13A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH04-0'	E403187-14A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH04-5'	E403187-15A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH04-5.5	E403187-16A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH05-0'	E403187-17A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
BH05-4'	E403187-18A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
---	---	----------------------------------

SS01-0'  
E403187-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/23/24	
Surrogate: n-Nonane	97.9 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	385	20.0	1	03/21/24	03/21/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
---	---	----------------------------------

SS02-0'

E403187-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/25/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/25/24	
Toluene	ND	0.0250	1	03/21/24	03/25/24	
o-Xylene	ND	0.0250	1	03/21/24	03/25/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/25/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		03/21/24	03/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		03/21/24	03/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	92.7 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	33.8	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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SS03-0'

E403187-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	81.0 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	36.5	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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SS04-0'

E403187-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	74.2 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	23.7	20.0	1	03/21/24	03/21/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
---	---	----------------------------------

SS05-0'

E403187-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	249	50.0	2	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	408	100	2	03/22/24	03/23/24	
Surrogate: n-Nonane	92.8 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	ND	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
---	---	----------------------------------

SS06-0'

E403187-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	96.1 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	ND	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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SS07-01

E403187-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.2 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	3790	50.0	2	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	2670	100	2	03/22/24	03/23/24	
Surrogate: n-Nonane	94.7 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	ND	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH01-0'

E403187-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	0.0279	0.0250	1	03/21/24	03/26/24	
Toluene	0.167	0.0250	1	03/21/24	03/26/24	
o-Xylene	0.0385	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	0.141	0.0500	1	03/21/24	03/26/24	
Total Xylenes	0.180	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	15400	500	20	03/22/24	03/26/24	
Oil Range Organics (C28-C36)	5910	1000	20	03/22/24	03/26/24	
<i>Surrogate: n-Nonane</i>						
	96.2 %	50-200		03/22/24	03/26/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	1300	20.0	1	03/21/24	03/21/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH01-1'

E403187-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	31.4	25.0	1	03/22/24	03/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/26/24	
<i>Surrogate: n-Nonane</i>						
	93.1 %	50-200		03/22/24	03/26/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	360	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH02-0'

E403187-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	2.25	0.500	20	03/21/24	03/26/24	
Ethylbenzene	20.7	0.500	20	03/21/24	03/26/24	
Toluene	34.6	0.500	20	03/21/24	03/26/24	
o-Xylene	39.2	0.500	20	03/21/24	03/26/24	
p,m-Xylene	113	1.00	20	03/21/24	03/26/24	
Total Xylenes	153	0.500	20	03/21/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	1620	400	20	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	55900	1250	50	03/22/24	03/25/24	
Oil Range Organics (C28-C36)	16600	2500	50	03/22/24	03/25/24	
Surrogate: n-Nonane	1120 %	50-200		03/22/24	03/25/24	S5
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	892	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH02-3'

E403187-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.4 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/26/24	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		03/22/24	03/26/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	186	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH03-0'

E403187-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	0.291	0.250	10	03/21/24	03/26/24	
Ethylbenzene	6.95	0.250	10	03/21/24	03/26/24	
Toluene	8.90	0.250	10	03/21/24	03/26/24	
o-Xylene	13.9	0.250	10	03/21/24	03/26/24	
p,m-Xylene	36.9	0.500	10	03/21/24	03/26/24	
Total Xylenes	50.7	0.250	10	03/21/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	721	200	10	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	35800	500	20	03/22/24	03/25/24	
Oil Range Organics (C28-C36)	11400	1000	20	03/22/24	03/25/24	
Surrogate: n-Nonane	436 %	50-200		03/22/24	03/25/24	S5
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	ND	20.0	1	03/21/24	03/21/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH03-3.5'  
E403187-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	0.0416	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	0.0540	0.0500	1	03/21/24	03/26/24	
Total Xylenes	0.0956	0.0250	1	03/21/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	289	25.0	1	03/22/24	03/25/24	
Oil Range Organics (C28-C36)	126	50.0	1	03/22/24	03/25/24	
Surrogate: n-Nonane	89.3 %	50-200		03/22/24	03/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	234	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH04-0'

E403187-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.500	20	03/21/24	03/26/24	
Ethylbenzene	4.89	0.500	20	03/21/24	03/26/24	
Toluene	5.79	0.500	20	03/21/24	03/26/24	
o-Xylene	15.9	0.500	20	03/21/24	03/26/24	
p,m-Xylene	42.3	1.00	20	03/21/24	03/26/24	
Total Xylenes	58.1	0.500	20	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	530	400	20	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.5 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	31500	500	20	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	9250	1000	20	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	535 %	50-200		03/22/24	03/23/24	S5
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	1440	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH04-5'

E403187-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	0.0258	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	0.0637	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	0.152	0.0500	1	03/21/24	03/26/24	
Total Xylenes	0.216	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.6 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	347	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	137	50.0	1	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	93.5 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	39.1	20.0	1	03/21/24	03/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH04-5.5

E403187-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	0.120	0.0250	1	03/21/24	03/26/24	
Toluene	0.0719	0.0250	1	03/21/24	03/26/24	
o-Xylene	0.274	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	0.795	0.0500	1	03/21/24	03/26/24	
Total Xylenes	1.07	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	411	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	115	50.0	1	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	69.5	20.0	1	03/21/24	03/22/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH05-0'

E403187-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	0.787	0.250	10	03/21/24	03/26/24	
Ethylbenzene	7.71	0.250	10	03/21/24	03/26/24	
Toluene	13.1	0.250	10	03/21/24	03/26/24	
o-Xylene	15.7	0.250	10	03/21/24	03/26/24	
p,m-Xylene	42.4	0.500	10	03/21/24	03/26/24	
Total Xylenes	58.1	0.250	10	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	458	200	10	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.0 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	25700	500	20	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	6580	1000	20	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	726 %	50-200		03/22/24	03/23/24	S5
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	3250	40.0	2	03/21/24	03/22/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:01:58PM
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BH05-4'

E403187-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.4 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2412101	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/23/24	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		03/22/24	03/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2412089	
Chloride	433	20.0	1	03/21/24	03/22/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/27/2024 3:01:58PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412067-BLK1)Prepared: 03/21/24 Analyzed: 03/25/24

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	7.50		8.00		93.8	70-130			

LCS (2412067-BS1)Prepared: 03/21/24 Analyzed: 03/25/24

Benzene	4.99	0.0250	5.00		99.9	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.3	70-130			
Toluene	4.97	0.0250	5.00		99.4	70-130			
o-Xylene	4.92	0.0250	5.00		98.3	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.5	70-130			

Matrix Spike (2412067-MS1)Source: E403187-02Prepared: 03/21/24 Analyzed: 03/25/24

Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	61-133			
Toluene	4.99	0.0250	5.00	ND	99.7	61-130			
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			

Matrix Spike Dup (2412067-MSD1)Source: E403187-02Prepared: 03/21/24 Analyzed: 03/26/24

Benzene	5.06	0.0250	5.00	ND	101	54-133	0.756	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	0.544	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	0.581	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	0.679	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.554	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	0.595	20	
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		92.9	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/27/2024 3:01:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412067-BLK1) Prepared: 03/21/24 Analyzed: 03/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

LCS (2412067-BS2) Prepared: 03/21/24 Analyzed: 03/25/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

Matrix Spike (2412067-MS2) Source: E403187-02 Prepared: 03/21/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.2	70-130			

Matrix Spike Dup (2412067-MSD2) Source: E403187-02 Prepared: 03/21/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.3	70-130	0.871	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 #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/27/2024 3:01:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412101-BLK1)					Prepared: 03/22/24 Analyzed: 03/23/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.6	50-200			

LCS (2412101-BS1)					Prepared: 03/22/24 Analyzed: 03/23/24				
Diesel Range Organics (C10-C28)	299	25.0	250		120	38-132			
Surrogate: n-Nonane	45.2		50.0		90.5	50-200			

Matrix Spike (2412101-MS1)					Source: E403187-01		Prepared: 03/22/24 Analyzed: 03/23/24		
Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	38-132			
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

Matrix Spike Dup (2412101-MSD1)					Source: E403187-01		Prepared: 03/22/24 Analyzed: 03/23/24		
Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132	0.765	20	
Surrogate: n-Nonane	45.7		50.0		91.3	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported:  3/27/2024 3:01:58PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412089-BLK1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Chloride	ND	20.0							
LCS (2412089-BS1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2412089-MS1)					Source: E403187-03		Prepared: 03/21/24 Analyzed: 03/21/24		
Chloride	285	20.0	250	36.5	99.6	80-120			
Matrix Spike Dup (2412089-MSD1)					Source: E403187-03		Prepared: 03/21/24 Analyzed: 03/21/24		
Chloride	282	20.0	250	36.5	98.4	80-120	1.06	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/27/24 15:01

- 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.

## Project Information

## Chain of Custody

Client: Matador Production Company				<b>Bill To</b> Attention: Ensolum LLC Address: on file City, State, Zip: Phone: 575-988-0055 Email: agiovento@ensolum.com		Lab Use Only				TAT				EPA Program	
Project: Marbob State #2						Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovento						E-2304	23052-0001						x		
Address: 3122 National Parks Hwy						Analysis and Method				RCRA State NM CO UT AZ TX x					
City, State, Zip: Carlsbad NM, 88220															
Phone: 575-988-0055															
Email: agiovento@ensolum.com															
Report due by:															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	Remarks	
11:13	3/18/2024	Soil	1	SS01 - 0'	1							X			
9:51	3/18/2024	Soil	1	SS02 - 0'	2							X			
9:52	3/18/2024	Soil	1	SS03 - 0'	3							X			
9:56	3/18/2024	Soil	1	SS04 - 0'	4							X			
9:57	3/18/2024	Soil	1	SS05 - 0'	5							X			
9:59	3/18/2024	Soil	1	SS06 - 0'	6							X			
10:03	3/18/2024	Soil	1	SS07 - 0'	7							X			
11:30	3/18/2024	Soil	1	BH01 - 0'	8							X			
13:18	3/18/2024	Soil	1	BH01 - 1'	9							X			
11:45	3/18/2024	Soil	1	BH02 - 0'	10							X			

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovento@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com

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

Sampled by:

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	3-19-24	7:30	<i>Michelle Cough</i>	3-19-24	0730
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Michelle Cough</i>	3-19-24	1621	<i>Andrew HSS</i>	3-19-24	1700
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Andrew HSS</i>	3-19-24	2400	<i>Quina</i>	03-20-24	09:51

Lab Use Only

Received on ice: ☒ Y ☐ N

T1 T2 T3

AVG Temp °C 4

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 30 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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Client: Matador Production Company		Bill To		Lab Use Only		TAT				EPA Program			
Project: Marbob State #2		Attention: Ensolum LLC		Lab WO# E403187		Job Number 22052-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file									x		
Address: 3122 National Parks Hwy		City, State, Zip:										RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055											
Phone: 575-988-0055		Email: agiovengo@ensolum.com											
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC	NM	GDOC	TX	Remarks
13:16	3/18/2024	Soil	1	BH02 - 3'	11							X				
11:52	3/18/2024	Soil	1	BH03 - 0'	12							X				
14:03	3/18/2024	Soil	1	BH03 - 3.5'	13							X				
12:16	3/18/2024	Soil	1	BH04 - 0'	14							X				
14:11	3/18/2024	Soil	1	BH04 - 5'	15							X				
14:15	3/18/2024	Soil	1	BH04 - 5.5	16							X				Do not run unless BH04 - 5' is > 100 TPH or 600 Cl
12:26	3/18/2024	Soil	1	BH05 - 0'	17							X				
14:06	3/18/2024	Soil	1	BH05 - 4'	18							X				

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						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 5 °C on subsequent days.					
Sampled by:											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<i>Michelle Cough</i>	3-19-24	7:30	<i>Michelle Cough</i>	3-19-24	0730	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____					
<i>Michelle Cough</i>	3-19-24	1621	<i>Michelle Cough</i>	3-19-24	1700						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>					
<i>Michelle Cough</i>	3-19-24	2400	<i>Michelle Cough</i>	03-20-24	09:51						

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 30 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: 3/20/2024 12:24:13PM

## 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:	03/20/24 09:51	Work Order ID:	E403187
Phone:	(972) 371-5200	Date Logged In:	03/20/24 12:02	Logged In By:	Jessica Liesse
Email:	agiovngo@ensolum.com	Due Date:	03/26/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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? No

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E403188

Job Number: 23052-0001

Received: 3/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/27/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 3/27/24

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



Project Name: Marbob State #2  
Workorder: E403188  
Date Received: 3/20/2024 9:51:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/20/2024 9:51:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/27/24 15:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08-0'	E403188-01A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/27/2024 3:00:33PM
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SS08-0'  
E403188-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Benzene	ND	0.0250	1	03/21/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/26/24	
Toluene	ND	0.0250	1	03/21/24	03/26/24	
o-Xylene	ND	0.0250	1	03/21/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	89.0 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: EG		Batch: 2412067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		03/21/24	03/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2412072	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/21/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/21/24	03/21/24	
Surrogate: n-Nonane	74.8 %	50-200		03/21/24	03/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2412080	
Chloride	23.2	20.0	1	03/21/24	03/21/24	

## QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/27/2024 3:00:33PM

## Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2412067-BLK1)

Prepared: 03/21/24 Analyzed: 03/25/24

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	7.50		8.00		93.8	70-130			

## LCS (2412067-BS1)

Prepared: 03/21/24 Analyzed: 03/25/24

Benzene	4.99	0.0250	5.00		99.9	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.3	70-130			
Toluene	4.97	0.0250	5.00		99.4	70-130			
o-Xylene	4.92	0.0250	5.00		98.3	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.5	70-130			

## Matrix Spike (2412067-MS1)

Source: E403187-02

Prepared: 03/21/24 Analyzed: 03/25/24

Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	61-133			
Toluene	4.99	0.0250	5.00	ND	99.7	61-130			
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			

## Matrix Spike Dup (2412067-MSD1)

Source: E403187-02

Prepared: 03/21/24 Analyzed: 03/26/24

Benzene	5.06	0.0250	5.00	ND	101	54-133	0.756	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	0.544	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	0.581	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	0.679	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.554	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	0.595	20	
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		92.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/27/2024 3:00:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412067-BLK1) Prepared: 03/21/24 Analyzed: 03/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

LCS (2412067-BS2) Prepared: 03/21/24 Analyzed: 03/25/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

Matrix Spike (2412067-MS2) Source: E403187-02 Prepared: 03/21/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.2	70-130			

Matrix Spike Dup (2412067-MSD2) Source: E403187-02 Prepared: 03/21/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.3	70-130	0.871	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 #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/27/2024 3:00:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412072-BLK1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.1		50.0		78.1	50-200			

LCS (2412072-BS1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Diesel Range Organics (C10-C28)	248	25.0	250		99.3	38-132			
Surrogate: n-Nonane	39.3		50.0		78.7	50-200			

Matrix Spike (2412072-MS1)					Source: E403189-01		Prepared: 03/21/24 Analyzed: 03/21/24		
Diesel Range Organics (C10-C28)	446	125	250	214	92.9	38-132			
Surrogate: n-Nonane	38.3		50.0		76.6	50-200			

Matrix Spike Dup (2412072-MSD1)					Source: E403189-01		Prepared: 03/21/24 Analyzed: 03/21/24		
Diesel Range Organics (C10-C28)	434	125	250	214	88.0	38-132	2.76	20	
Surrogate: n-Nonane	37.7		50.0		75.5	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/27/2024 3:00:33PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412080-BLK1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Chloride	ND	20.0							
LCS (2412080-BS1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2412080-MS1)					Source: E403198-08		Prepared: 03/21/24 Analyzed: 03/21/24		
Chloride	368	20.0	250	113	102	80-120			
Matrix Spike Dup (2412080-MSD1)					Source: E403198-08		Prepared: 03/21/24 Analyzed: 03/21/24		
Chloride	369	20.0	250	113	102	80-120	0.299	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/27/24 15:00

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.



[illegible]

## Envirotech Analytical Laboratory

Printed: 3/20/2024 12:29:24PM

## 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:	03/20/24 09:51	Work Order ID:	E403188
Phone:	(972) 371-5200	Date Logged In:	03/20/24 12:25	Logged In By:	Jessica Liesse
Email:	agiovngo@ensolum.com	Due Date:	03/26/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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? No

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E403189

Job Number: 23052-0001

Received: 3/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/25/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 3/25/24

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



Project Name: Marbob State #2  
Workorder: E403189  
Date Received: 3/20/2024 9:51:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/20/2024 9:51:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/25/24 13:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS09-0'	E403189-01A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 3/25/2024 1:51:37PM
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SS09-0'  
E403189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2412078	
Benzene	ND	0.0250	1	03/21/24	03/22/24	
Ethylbenzene	ND	0.0250	1	03/21/24	03/22/24	
Toluene	ND	0.0250	1	03/21/24	03/22/24	
o-Xylene	ND	0.0250	1	03/21/24	03/22/24	
p,m-Xylene	ND	0.0500	1	03/21/24	03/22/24	
Total Xylenes	ND	0.0250	1	03/21/24	03/22/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		03/21/24	03/22/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2412078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.7 %	70-130		03/21/24	03/22/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2412072	
Diesel Range Organics (C10-C28)	214	125	5	03/21/24	03/21/24	
Oil Range Organics (C28-C36)	323	250	5	03/21/24	03/21/24	
Surrogate: n-Nonane	75.0 %	50-200		03/21/24	03/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2412080	
Chloride	368	20.0	1	03/21/24	03/21/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  3/25/2024 1:51:37PM
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412078-BLK1)

Prepared: 03/21/24 Analyzed: 03/22/24

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	7.58		8.00		94.8	70-130			

LCS (2412078-BS1)

Prepared: 03/21/24 Analyzed: 03/22/24

Benzene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.93	0.0250	5.00		98.6	70-130			
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130			
Total Xylenes	14.9	0.0250	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			

Matrix Spike (2412078-MS1)

Source: E403190-01

Prepared: 03/21/24 Analyzed: 03/22/24

Benzene	5.11	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.5	61-133			
Toluene	5.08	0.0250	5.00	ND	102	61-130			
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			

Matrix Spike Dup (2412078-MSD1)

Source: E403190-01

Prepared: 03/21/24 Analyzed: 03/22/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	0.196	20	
Ethylbenzene	4.95	0.0250	5.00	ND	99.0	61-133	0.487	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	0.220	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	0.433	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.376	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	0.395	20	
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/25/2024 1:51:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412078-BLK1) Prepared: 03/21/24 Analyzed: 03/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

LCS (2412078-BS2) Prepared: 03/21/24 Analyzed: 03/22/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.4	70-130			

Matrix Spike (2412078-MS2) Source: E403190-01 Prepared: 03/21/24 Analyzed: 03/22/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

Matrix Spike Dup (2412078-MSD2) Source: E403190-01 Prepared: 03/21/24 Analyzed: 03/22/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.1	70-130	0.761	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/25/2024 1:51:37PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412072-BLK1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.1		50.0		78.1	50-200			

LCS (2412072-BS1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Diesel Range Organics (C10-C28)	248	25.0	250		99.3	38-132			
Surrogate: n-Nonane	39.3		50.0		78.7	50-200			

Matrix Spike (2412072-MS1)					Source: E403189-01		Prepared: 03/21/24 Analyzed: 03/21/24		
Diesel Range Organics (C10-C28)	446	125	250	214	92.9	38-132			
Surrogate: n-Nonane	38.3		50.0		76.6	50-200			

Matrix Spike Dup (2412072-MSD1)					Source: E403189-01		Prepared: 03/21/24 Analyzed: 03/21/24		
Diesel Range Organics (C10-C28)	434	125	250	214	88.0	38-132	2.76	20	
Surrogate: n-Nonane	37.7		50.0		75.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported:  3/25/2024 1:51:37PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412080-BLK1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Chloride	ND	20.0							
LCS (2412080-BS1)					Prepared: 03/21/24 Analyzed: 03/21/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2412080-MS1)					Source: E403198-08		Prepared: 03/21/24 Analyzed: 03/21/24		
Chloride	368	20.0	250	113	102	80-120			
Matrix Spike Dup (2412080-MSD1)					Source: E403198-08		Prepared: 03/21/24 Analyzed: 03/21/24		
Chloride	369	20.0	250	113	102	80-120	0.299	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/25/24 13:51

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.





[illegible]

Additional Instructions: Please CC: [cburton@ensolum.com](mailto:cburton@ensolum.com), [agiovengo@ensolum.com](mailto:agiovengo@ensolum.com), [chamilton@ensolum.com](mailto:chamilton@ensolum.com), [iestrella@ensolum.com](mailto:iestrella@ensolum.com)

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

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.

Relinquished by: (Signature) <i>2nd Person</i>	Date 3-19-24	Time 7:30	Received by: (Signature) <i>Michelle Cough</i>	Date 3-19-24	Time 0730	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Cough</i>	Date 3-19-24	Time 1621	Received by: (Signature) <i>Andrew M880</i>	Date 3-19-24	Time 1700	
Relinquished by: (Signature) <i>Andrew M880</i>	Date 3-19-24	Time 2400	Received by: (Signature) <i>Thais</i>	Date 03-20-24	Time 09:51	
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 30 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: 3/20/2024 12:34:41PM

## 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.  
Phone: (972) 371-5200  
Email: agiovngo@ensolum.com

Date Received: 03/20/24 09:51  
Date Logged In: 03/20/24 12:32  
Due Date: 03/26/24 17:00 (4 day TAT)

Work Order ID: E403189  
Logged In By: Jessica Liesse

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  
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes  
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,  
i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15  
minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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? No

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E404108

Job Number: 23003-C-0001

Received: 4/12/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/19/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 4/19/24

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



Project Name: Marbob State #2  
Workorder: E404108  
Date Received: 4/12/2024 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/12/2024 7:15:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/19/24 11:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05A -0'	E404108-01A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
SS07A -0'	E404108-02A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH06 -0'	E404108-03A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH06 -2'	E404108-04A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH06 -3'	E404108-05A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH07 -0'	E404108-06A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH07 -2'	E404108-07A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH07 -3'	E404108-08A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH06 -4'	E404108-09A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.
BH07 -4'	E404108-10A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-C-0001  
Project Manager: Ashley Giovengo

**Reported:**  
4/19/2024 11:24:20AM

**SS05A -0'**

**E404108-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/12/24	04/16/24	
Toluene	ND	0.0250	1	04/12/24	04/16/24	
o-Xylene	ND	0.0250	1	04/12/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/12/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/12/24	04/16/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	04/12/24	04/16/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	04/12/24	04/16/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	04/12/24	04/16/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/16/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	04/12/24	04/16/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	04/12/24	04/16/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	04/12/24	04/16/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416076
Chloride	ND	20.0	1	04/17/24	04/18/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-C-0001  
Project Manager: Ashley Giovengo

**Reported:**  
4/19/2024 11:24:20AM

SS07A -0'

E404108-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/12/24	04/17/24	
Toluene	ND	0.0250	1	04/12/24	04/17/24	
o-Xylene	ND	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/12/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		96.1 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		96.1 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		116 %	50-200	04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416076
Chloride	ND	20.0	1	04/17/24	04/18/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-C-0001  
Project Manager: Ashley Giovengo

**Reported:**  
4/19/2024 11:24:20AM

BH06 -0'

E404108-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	
Ethylbenzene	<b>0.285</b>	0.0250	1	04/12/24	04/17/24	
Toluene	<b>0.332</b>	0.0250	1	04/12/24	04/17/24	
o-Xylene	<b>1.26</b>	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	<b>3.48</b>	0.0500	1	04/12/24	04/17/24	
Total Xylenes	<b>4.73</b>	0.0250	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene	105 %	70-130		04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		04/12/24	04/17/24	
Surrogate: Toluene-d8	101 %	70-130		04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	<b>82.2</b>	20.0	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene	105 %	70-130		04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		04/12/24	04/17/24	
Surrogate: Toluene-d8	101 %	70-130		04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	<b>13500</b>	125	5	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	<b>5680</b>	250	5	04/17/24	04/18/24	
Surrogate: n-Nonane	166 %	50-200		04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416076
Chloride	<b>2800</b>	40.0	2	04/17/24	04/18/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-C-0001  
Project Manager: Ashley Giovengo

**Reported:**  
4/19/2024 11:24:20AM

BH06 -2'

E404108-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/12/24	04/17/24	
Toluene	ND	0.0250	1	04/12/24	04/17/24	
o-Xylene	ND	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/12/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		97.4 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		97.4 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		115 %	50-200	04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416076
Chloride	231	20.0	1	04/17/24	04/18/24	





## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-C-0001  
Project Manager: Ashley Giovengo

**Reported:**  
4/19/2024 11:24:20AM

BH06 -3'

E404108-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/12/24	04/17/24	
Toluene	ND	0.0250	1	04/12/24	04/17/24	
o-Xylene	ND	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/12/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		108 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		104 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		108 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		104 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		118 %	50-200	04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416076
Chloride	312	20.0	1	04/17/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 11:24:20AM
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BH07 -0'

E404108-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	
Ethylbenzene	0.0325	0.0250	1	04/12/24	04/17/24	
Toluene	0.110	0.0250	1	04/12/24	04/17/24	
o-Xylene	0.128	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	0.168	0.0500	1	04/12/24	04/17/24	
Total Xylenes	0.296	0.0250	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		111 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		118 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		111 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		118 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	15800	250	10	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	9400	500	10	04/17/24	04/18/24	
Surrogate: n-Nonane		119 %	50-200	04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416076
Chloride	1270	20.0	1	04/17/24	04/18/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-C-0001  
Project Manager: Ashley Giovengo

**Reported:**  
4/19/2024 11:24:20AM

BH07 -2'

E404108-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/12/24	04/17/24	
Toluene	ND	0.0250	1	04/12/24	04/17/24	
o-Xylene	ND	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/12/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		89.4 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		89.4 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	48.9	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	55.7	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		117 %	50-200	04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416076
Chloride	ND	20.0	1	04/17/24	04/18/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-C-0001  
Project Manager: Ashley Giovengo

**Reported:**  
4/19/2024 11:24:20AM

BH07 -3'

E404108-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/12/24	04/17/24	
Toluene	ND	0.0250	1	04/12/24	04/17/24	
o-Xylene	ND	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/12/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		97.6 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/17/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/12/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	04/12/24	04/17/24	
Surrogate: Toluene-d8		97.6 %	70-130	04/12/24	04/17/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		117 %	50-200	04/17/24	04/18/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2416076
Chloride	322	20.0	1	04/17/24	04/18/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  4/19/2024 11:24:20AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415087-BLK1) Prepared: 04/12/24 Analyzed: 04/16/24

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	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2415087-BS1) Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	2.61	0.0250	2.50		104	70-130			
Ethylbenzene	2.55	0.0250	2.50		102	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.43	0.0250	2.50		97.3	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.34	0.0250	7.50		97.9	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			

Matrix Spike (2415087-MS1) Source: E404108-01 Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	2.38	0.0250	2.50	ND	95.4	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.3	45-135			
Toluene	2.36	0.0250	2.50	ND	94.3	48-130			
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135			
p,m-Xylene	4.79	0.0500	5.00	ND	95.8	43-135			
Total Xylenes	7.19	0.0250	7.50	ND	95.9	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike Dup (2415087-MSD1) Source: E404108-01 Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	2.52	0.0250	2.50	ND	101	48-131	5.61	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.5	45-135	1.16	27	
Toluene	2.21	0.0250	2.50	ND	88.6	48-130	6.32	24	
o-Xylene	2.53	0.0250	2.50	ND	101	43-135	5.08	27	
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135	11.1	27	
Total Xylenes	7.88	0.0250	7.50	ND	105	43-135	9.13	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.454		0.500		90.8	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  4/19/2024 11:24:20AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415087-BLK1) Prepared: 04/12/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2415087-BS2) Prepared: 04/12/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike (2415087-MS2) Source: E404108-01 Prepared: 04/12/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike Dup (2415087-MSD2) Source: E404108-01 Prepared: 04/12/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	0.628	20	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 11:24:20AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416070-BLK1) Prepared: 04/17/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	50-200			

LCS (2416070-BS1) Prepared: 04/17/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	322	25.0	250		129	38-132			
Surrogate: n-Nonane	58.6		50.0		117	50-200			

Matrix Spike (2416070-MS1) Source: E404105-25 Prepared: 04/17/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	325	25.0	250	ND	130	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike Dup (2416070-MSD1) Source: E404105-25 Prepared: 04/17/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	329	25.0	250	ND	132	38-132	1.14	20	
Surrogate: n-Nonane	59.3		50.0		119	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported:  4/19/2024 11:24:20AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416076-BLK1)					Prepared: 04/17/24 Analyzed: 04/17/24				
Chloride	ND	20.0							
LCS (2416076-BS1)					Prepared: 04/17/24 Analyzed: 04/17/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2416076-MS1)					Source: E404136-02		Prepared: 04/17/24 Analyzed: 04/17/24		
Chloride	301	20.0	250	46.5	102	80-120			
Matrix Spike Dup (2416076-MSD1)					Source: E404136-02		Prepared: 04/17/24 Analyzed: 04/17/24		
Chloride	300	20.0	250	46.5	101	80-120	0.367	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/19/24 11:24

- 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.

Client: Matador Production Company		<b>Bill To</b>		Lab Use Only		TAT		EPA Program					
Project: Marbob State #2		Attention: Ensolum LLC		Lab WO# E404108		Job Number 23003-C-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file									x		
Address: 3122 National Parks Hwy		City, State, Zip:											RCRA
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055											
Phone: 575-988-0055		Email: agiovengo@ensolum.com											
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC	TX	Remarks
11:50	4/10/2024	Soil	1	SS05A - 0'	1							X		
11:52	4/10/2024	Soil	1	SS07A - 0'	2							X		
10:08	4/10/2024	Soil	1	BH06 - 0'	3							X		
10:26	4/10/2024	Soil	1	BH06 - 2'	4							X		
10:28	4/10/2024	Soil	1	BH06 - 3'	5							X		
10:33	4/10/2024	Soil	1	BH07 - 0'	6							X		
10:57	4/10/2024	Soil	1	BH07 - 2'	7							X		
11:04	4/10/2024	Soil	1	BH07 - 3'	8							X		
10:31	4/10/2024	Soil	1	BH06 - 4'	9							X		Do not run for BGDOC unless BH06 - 3' is > 600 Cl or 100 TPH
11:06	4/10/2024	Soil	1	BH07 - 4'	10							X		Do not run for BGDOC unless BH07 - 3' is > 600 Cl or 100 TPH

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

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

Sampled by: Cole Burton

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.

Relinquished by: (Signature) <i>Cole Burton</i>	Date 4-11-24	Time 7:30	Received by: (Signature) <i>Michelle Gonzales</i>	Date 4-11-24	Time 0730	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 4-11-24	Time 1640	Received by: (Signature) <i>J.H.</i>	Date 4.11.24	Time 1745	
Relinquished by: (Signature) <i>J.H.</i>	Date 4.11.24	Time 2400	Received by: (Signature) <i>AS</i>	Date 4/12/24	Time 0715	

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 30 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: 4/12/2024 4:51:56PM

## 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.  
 Phone: (972) 371-5200  
 Email: agiovngo@ensolum.com

Date Received: 04/12/24 07:15  
 Date Logged In: 04/12/24 09:29  
 Due Date: 04/18/24 17:00 (4 day TAT)

Work Order ID: E404108  
 Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field,  
 i.e., 15 minute hold time, are not included in this discussion.

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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15  
 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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 InstructionComments/Resolution

For BH06 -4 (Sample 9): Do not run for  
 BGDOC unless BH06 -3 is >600CL or  
 100TPH. For BH07 -4 (Sample 10): Do not  
 run for BGDOC unless BH07 -3 is >600CL  
 or 100TPH

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E404109

Job Number: 23003-C-0001

Received: 4/12/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/18/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 4/18/24

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



Project Name: Marbob State #2  
Workorder: E404109  
Date Received: 4/12/2024 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/12/2024 7:15:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
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**Michelle Golzaes**  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/18/24 09:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS09 -0'	E404109-01A	Soil	04/10/24	04/12/24	Glass Jar, 2 oz.





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/18/2024 9:26:48AM
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SS09 -0'  
E404109-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2415085	
Benzene	ND	0.0250	1	04/12/24	04/15/24	
Ethylbenzene	ND	0.0250	1	04/12/24	04/15/24	
Toluene	ND	0.0250	1	04/12/24	04/15/24	
o-Xylene	ND	0.0250	1	04/12/24	04/15/24	
p,m-Xylene	ND	0.0500	1	04/12/24	04/15/24	
Total Xylenes	ND	0.0250	1	04/12/24	04/15/24	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		04/12/24	04/15/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2415085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/24	04/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.4 %	70-130		04/12/24	04/15/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2416044	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/16/24	04/17/24	
Oil Range Organics (C28-C36)	73.5	50.0	1	04/16/24	04/17/24	
Surrogate: n-Nonane	112 %	50-200		04/16/24	04/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2416033	
Chloride	96.8	20.0	1	04/15/24	04/16/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2024 9:26:48AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415085-BLK1) Prepared: 04/12/24 Analyzed: 04/15/24

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	7.67		8.00		95.8	70-130			

LCS (2415085-BS1) Prepared: 04/12/24 Analyzed: 04/15/24

Benzene	4.96	0.0250	5.00		99.3	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.7	70-130			
Toluene	4.96	0.0250	5.00		99.2	70-130			
o-Xylene	4.91	0.0250	5.00		98.1	70-130			
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

Matrix Spike (2415085-MS1) Source: E404106-27 Prepared: 04/12/24 Analyzed: 04/15/24

Benzene	5.27	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.26	0.0250	5.00	ND	105	61-130			
o-Xylene	5.19	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.1	70-130			

Matrix Spike Dup (2415085-MSD1) Source: E404106-27 Prepared: 04/12/24 Analyzed: 04/15/24

Benzene	4.86	0.0250	5.00	ND	97.1	54-133	8.10	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.3	61-133	8.35	20	
Toluene	4.85	0.0250	5.00	ND	96.9	61-130	8.19	20	
o-Xylene	4.78	0.0250	5.00	ND	95.6	63-131	8.33	20	
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131	8.32	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.1	63-131	8.32	20	
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2024 9:26:48AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415085-BLK1) Prepared: 04/12/24 Analyzed: 04/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.4	70-130			

LCS (2415085-BS2) Prepared: 04/12/24 Analyzed: 04/15/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

Matrix Spike (2415085-MS2) Source: E404106-27 Prepared: 04/12/24 Analyzed: 04/15/24

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130			

Matrix Spike Dup (2415085-MSD2) Source: E404106-27 Prepared: 04/12/24 Analyzed: 04/15/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.5	70-130	1.85	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2024 9:26:48AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416044-BLK1) Prepared: 04/16/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.3		50.0		113	50-200			

LCS (2416044-BS1) Prepared: 04/16/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	321	25.0	250		128	38-132			
Surrogate: n-Nonane	59.9		50.0		120	50-200			

Matrix Spike (2416044-MS1) Source: E404086-43 Prepared: 04/16/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	328	25.0	250	ND	131	38-132			
Surrogate: n-Nonane	54.7		50.0		109	50-200			

Matrix Spike Dup (2416044-MSD1) Source: E404086-43 Prepared: 04/16/24 Analyzed: 04/17/24

Diesel Range Organics (C10-C28)	328	25.0	250	ND	131	38-132	0.221	20	
Surrogate: n-Nonane	56.5		50.0		113	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported:  4/18/2024 9:26:48AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416033-BLK1)					Prepared: 04/15/24 Analyzed: 04/16/24				
Chloride	ND	20.0							
LCS (2416033-BS1)					Prepared: 04/15/24 Analyzed: 04/16/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416033-MS1)					Source: E404117-01		Prepared: 04/15/24 Analyzed: 04/16/24		
Chloride	322	20.0	250	66.0	102	80-120			
Matrix Spike Dup (2416033-MSD1)					Source: E404117-01		Prepared: 04/15/24 Analyzed: 04/16/24		
Chloride	322	20.0	250	66.0	102	80-120	0.119	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/18/24 09:26

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.



Client: Matador Production Company					Bill To Attention: Ensolum LLC Address: on file City, State, Zip: Phone: 575-988-0055 Email: agiovengo@ensolum.com		Lab Use Only					TAT				EPA Program					
Project: Marbob State #2							Lab WO#	Job Number				1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo							E 404109				23003-C-0001							x			
Address: 3122 National Parks Hwy							Analysis and Method										RCRA				
City, State, Zip: Carlsbad NM, 88220							TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State						
Phone: 575-988-0055															NM	CO	UT	AZ	TX		
Email: agiovengo@ensolum.com															x						
Report due by:															Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
9:34	4/10/2024	Soil	1	SS09 - 0'	1									X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											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.										
Sampled by: Cole Burton																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
C. H. Burton		4-11-24	7:30	Michelle Gonzales		4-11-24	0730	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N													
Michelle Gonzales		4-11-24	1640	C. H. Burton		4-11-24	1745	T1 _____ T2 _____ T3 _____													
C. H. Burton		4-11-24	2400	C. H. Burton		4-12-24	0715	AVG Temp °C 4													
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 30 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: 4/12/2024 5:07:32PM

## 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.  
 Phone: (972) 371-5200  
 Email: agiovnago@ensolum.com

Date Received: 04/12/24 07:15  
 Date Logged In: 04/12/24 09:47  
 Due Date: 04/18/24 17:00 (4 day TAT)

Work Order ID: E404109  
 Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408130

Job Number: 23003-0002

Received: 8/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/19/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/19/24

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



Project Name: Marbob State #2  
Workorder: E408130  
Date Received: 8/14/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/14/2024 8:00:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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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Cell: 775-287-1762  
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**Raina Schwanz**  
Laboratory Administrator  
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**Michelle Gonzales**  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
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Chain of Custody etc.	11



Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/19/24 09:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 4'	E408130-01A	Soil	08/12/24	08/14/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 9:50:39AM
---	---	----------------------------------

FS01 - 4'

E408130-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433067	
Benzene	ND	0.0250	1	08/14/24	08/14/24	
Ethylbenzene	ND	0.0250	1	08/14/24	08/14/24	
Toluene	ND	0.0250	1	08/14/24	08/14/24	
o-Xylene	ND	0.0250	1	08/14/24	08/14/24	
p,m-Xylene	ND	0.0500	1	08/14/24	08/14/24	
Total Xylenes	ND	0.0250	1	08/14/24	08/14/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		08/14/24	08/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/24	08/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		08/14/24	08/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2433075	
Diesel Range Organics (C10-C28)	31.0	25.0	1	08/14/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/14/24	08/14/24	
Surrogate: n-Nonane	91.8 %	50-200		08/14/24	08/14/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2433076	
Chloride	104	20.0	1	08/14/24	08/14/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 9:50:39AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433067-BLK1)Prepared: 08/14/24 Analyzed: 08/14/24

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	7.20		8.00		90.0	70-130			

LCS (2433067-BS1)Prepared: 08/14/24 Analyzed: 08/14/24

Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.1	70-130			
Toluene	4.89	0.0250	5.00		97.7	70-130			
o-Xylene	4.77	0.0250	5.00		95.4	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.5	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike (2433067-MS1)Source: E408127-02Prepared: 08/14/24 Analyzed: 08/14/24

Benzene	5.33	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133			
Toluene	5.24	0.0250	5.00	ND	105	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2433067-MSD1)Source: E408127-02Prepared: 08/14/24 Analyzed: 08/14/24

Benzene	5.33	0.0250	5.00	ND	107	54-133	0.0113	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	0.339	20	
Toluene	5.24	0.0250	5.00	ND	105	61-130	0.0363	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	0.175	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.234	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	0.214	20	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 9:50:39AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433067-BLK1) Prepared: 08/14/24 Analyzed: 08/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

LCS (2433067-BS2) Prepared: 08/14/24 Analyzed: 08/14/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike (2433067-MS2) Source: E408127-02 Prepared: 08/14/24 Analyzed: 08/14/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2433067-MSD2) Source: E408127-02 Prepared: 08/14/24 Analyzed: 08/14/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 9:50:39AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433075-BLK1) Prepared: 08/14/24 Analyzed: 08/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS (2433075-BS1) Prepared: 08/14/24 Analyzed: 08/14/24

Diesel Range Organics (C10-C28)	166	25.0	250		66.2	38-132			
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			

Matrix Spike (2433075-MS1) Source: E408132-02 Prepared: 08/14/24 Analyzed: 08/14/24

Diesel Range Organics (C10-C28)	177	25.0	250	ND	70.8	38-132			
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			

Matrix Spike Dup (2433075-MSD1) Source: E408132-02 Prepared: 08/14/24 Analyzed: 08/14/24

Diesel Range Organics (C10-C28)	172	25.0	250	ND	69.0	38-132	2.56	20	
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/19/2024 9:50:39AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433076-BLK1)					Prepared: 08/14/24 Analyzed: 08/14/24				
Chloride	ND	20.0							
LCS (2433076-BS1)					Prepared: 08/14/24 Analyzed: 08/14/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2433076-MS1)					Source: E408127-01		Prepared: 08/14/24 Analyzed: 08/14/24		
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2433076-MSD1)					Source: E408127-01		Prepared: 08/14/24 Analyzed: 08/14/24		
Chloride	256	20.0	250	ND	102	80-120	0.803	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/19/24 09:50

- 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.

## Page 1 of 1



## Envirotech Analytical Laboratory

Printed: 8/14/2024 9:32:01AM

## 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:	08/14/24 08:00	Work Order ID:	E408130
Phone:	(972) 371-5200	Date Logged In:	08/13/24 16:48	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/20/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408146

Job Number: 23003-0002

Received: 8/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/21/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/21/24

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



Project Name: Marbob State #2  
Workorder: E408146  
Date Received: 8/16/2024 8:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2024 8:00:56AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/21/24 16:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS09 - 1'	E408146-01A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
FS10 - 1'	E408146-02A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
FS02 - 4'	E408146-03A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
FS03 - 4'	E408146-04A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.

## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/21/2024 4:48:33PM

## FS09 - 1'

## E408146-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433118
Benzene	ND	0.0250	1	08/16/24	08/16/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/16/24	
Toluene	ND	0.0250	1	08/16/24	08/16/24	
o-Xylene	ND	0.0250	1	08/16/24	08/16/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/16/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene		96.3 %	70-130	08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/16/24	08/16/24	
Surrogate: Toluene-d8		104 %	70-130	08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433118
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene		96.3 %	70-130	08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/16/24	08/16/24	
Surrogate: Toluene-d8		104 %	70-130	08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433109
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane		104 %	50-200	08/15/24	08/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433116
Chloride	116	20.0	1	08/16/24	08/16/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/21/2024 4:48:33PM

FS10 - 1'

E408146-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2433118	
Benzene	ND	0.0250	1	08/16/24	08/16/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/16/24	
Toluene	ND	0.0250	1	08/16/24	08/16/24	
o-Xylene	ND	0.0250	1	08/16/24	08/16/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/16/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	104 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2433118	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	104 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433109	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane	108 %	50-200		08/15/24	08/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2433116	
Chloride	48.5	20.0	1	08/16/24	08/16/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/21/2024 4:48:33PM

## FS02 - 4'

## E408146-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2433118	
Benzene	ND	0.0250	1	08/16/24	08/16/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/16/24	
Toluene	ND	0.0250	1	08/16/24	08/16/24	
o-Xylene	ND	0.0250	1	08/16/24	08/16/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/16/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	94.7 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	103 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2433118	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	94.7 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	103 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433109	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane	91.0 %	50-200		08/15/24	08/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2433116	
Chloride	89.0	20.0	1	08/16/24	08/16/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/21/2024 4:48:33PM

## FS03 - 4'

## E408146-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2433118	
Benzene	ND	0.0250	1	08/16/24	08/16/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/16/24	
Toluene	ND	0.0250	1	08/16/24	08/16/24	
o-Xylene	ND	0.0250	1	08/16/24	08/16/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/16/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	105 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2433118	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	105 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433109	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane	94.5 %	50-200		08/15/24	08/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2433116	
Chloride	97.5	20.0	1	08/16/24	08/16/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/21/2024 4:48:33PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433118-BLK1) Prepared: 08/16/24 Analyzed: 08/16/24

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	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2433118-BS1) Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	2.40	0.0250	2.50		96.1	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.44	0.0250	2.50		97.7	70-130			
o-Xylene	2.33	0.0250	2.50		93.2	70-130			
p,m-Xylene	4.66	0.0500	5.00		93.2	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.474		0.500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2433118-MS1) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	2.29	0.0250	2.50	ND	91.6	48-131			
Ethylbenzene	2.28	0.0250	2.50	ND	91.0	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
o-Xylene	2.24	0.0250	2.50	ND	89.4	43-135			
p,m-Xylene	4.47	0.0500	5.00	ND	89.4	43-135			
Total Xylenes	6.71	0.0250	7.50	ND	89.4	43-135			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2433118-MSD1) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	2.35	0.0250	2.50	ND	93.9	48-131	2.54	23	
Ethylbenzene	2.40	0.0250	2.50	ND	95.9	45-135	5.18	27	
Toluene	2.44	0.0250	2.50	ND	97.5	48-130	7.54	24	
o-Xylene	2.31	0.0250	2.50	ND	92.3	43-135	3.19	27	
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135	2.83	27	
Total Xylenes	6.91	0.0250	7.50	ND	92.1	43-135	2.95	27	
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  8/21/2024 4:48:33PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433118-BLK1) Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2433118-BS2) Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike (2433118-MS2) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2433118-MSD2) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	2.47	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/21/2024 4:48:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433109-BLK1) Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2433109-BS1) Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	216	25.0	250		86.5	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

Matrix Spike (2433109-MS1) Source: E408146-02 Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.8	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike Dup (2433109-MSD1) Source: E408146-02 Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.4	38-132	1.49	20	
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/21/2024 4:48:33PM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433116-BLK1)					Prepared: 08/16/24 Analyzed: 08/16/24				
Chloride	ND	20.0							
LCS (2433116-BS1)					Prepared: 08/16/24 Analyzed: 08/16/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2433116-MS1)					Source: E408146-04		Prepared: 08/16/24 Analyzed: 08/16/24		
Chloride	351	20.0	250	97.5	102	80-120			
Matrix Spike Dup (2433116-MSD1)					Source: E408146-04		Prepared: 08/16/24 Analyzed: 08/16/24		
Chloride	337	20.0	250	97.5	95.8	80-120	4.11	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/21/24 16:48

- 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.







## Envirotech Analytical Laboratory

Printed: 8/16/2024 8:50:03AM

## 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:	08/16/24 08:00	Work Order ID:	E408146
Phone:	(972) 371-5200	Date Logged In:	08/15/24 15:48	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/22/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408152

Job Number: 23003-0002

Received: 8/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/23/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/23/24

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



Project Name: Marbob State #2  
Workorder: E408152  
Date Received: 8/19/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/19/2024 8:30:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  08/23/24 06:54
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS11 - 4'	E408152-01A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS13 - 2-4'	E408152-02A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS12 - 2'	E408152-03A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
SW01 - 0-2'	E408152-04A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
SW02 - 0-2'	E408152-05A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS04 - 4'	E408152-06A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/23/2024 6:54:23AM

FS11 - 4'

E408152-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		101 %	50-200	08/19/24	08/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	204	20.0	1	08/19/24	08/19/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/23/2024 6:54:23AM

FS13 - 2-4'

E408152-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		95.1 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		95.1 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		96.8 %	50-200	08/19/24	08/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	307	20.0	1	08/19/24	08/19/24	





## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/23/2024 6:54:23AM

## FS12 - 2'

## E408152-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		102 %	50-200	08/19/24	08/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	23.4	20.0	1	08/19/24	08/19/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/23/2024 6:54:23AM

## SW01 - 0-2'

## E408152-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		93.6 %	50-200	08/19/24	08/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	112	20.0	1	08/19/24	08/19/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/23/2024 6:54:23AM

SW02 - 0-2'

E408152-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.3 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.3 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	768	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	346	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		97.8 %	50-200	08/19/24	08/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/23/2024 6:54:23AM

## FS04 - 4'

## E408152-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.4 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434001
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		97.4 %	70-130	08/19/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		97.0 %	50-200	08/19/24	08/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	215	20.0	1	08/19/24	08/19/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  8/23/2024 6:54:23AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434001-BLK1)

Prepared: 08/19/24 Analyzed: 08/19/24

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	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

LCS (2434001-BS1)

Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.33	0.0250	2.50		93.4	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.9	70-130			
Toluene	2.18	0.0250	2.50		87.1	70-130			
o-Xylene	2.26	0.0250	2.50		90.6	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.9	70-130			
Total Xylenes	6.81	0.0250	7.50		90.8	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			

LCS Dup (2434001-BSD1)

Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.43	0.0250	2.50		97.4	70-130	4.19	23	
Ethylbenzene	2.46	0.0250	2.50		98.4	70-130	5.81	27	
Toluene	2.32	0.0250	2.50		92.6	70-130	6.17	24	
o-Xylene	2.43	0.0250	2.50		97.2	70-130	7.07	27	
p,m-Xylene	4.84	0.0500	5.00		96.9	70-130	6.38	27	
Total Xylenes	7.27	0.0250	7.50		97.0	70-130	6.61	27	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  8/23/2024 6:54:23AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434001-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

LCS (2434001-BS2) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.7	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

LCS Dup (2434001-BSD2) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130	11.1	20	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/23/2024 6:54:23AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434004-BLK1)					Prepared: 08/19/24 Analyzed: 08/20/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2434004-BS1)					Prepared: 08/19/24 Analyzed: 08/20/24				
Diesel Range Organics (C10-C28)	186	25.0	250		74.5	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike (2434004-MS1)					Source: E408152-04		Prepared: 08/19/24 Analyzed: 08/20/24		
Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.7	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			

Matrix Spike Dup (2434004-MSD1)					Source: E408152-04		Prepared: 08/19/24 Analyzed: 08/20/24		
Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.3	38-132	0.795	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/23/2024 6:54:23AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434002-BLK1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	ND	20.0							
LCS (2434002-BS1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2434002-MS1)					Source: E408151-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2434002-MSD1)					Source: E408151-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	259	20.0	250	ND	104	80-120	2.41	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/23/24 06:54

- 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.



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E 408152		Job Number 23003-0002		1D 2D 3D Std x				NM CO UT TX x			
Project: Marbob State #2				Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055									
Project Manager: Ashley Giovengo				Email: agiovengo@ensolum.com		Miscellaneous:											
Address: 3122 National Parks Hwy																	
City, State, Zip: Carlsbad NM, 88220																	
Phone: 575-988-0055																	
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
11:41	8/15/2024	Soil	1	FS11 - 4'		1						X					
13:37	8/15/2024	Soil	1	FS13 - 2-4'		2						X					
13:55	8/15/2024	Soil	1	FS12 - 2'		3						X					
15:27	8/15/2024	Soil	1	SW01 - 0-2'		4						X					
15:02	8/15/2024	Soil	1	SW02 - 0-2'		5						X					
15:57	8/15/2024	Soil	1	FS04 - 4'		6						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@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: Brandon Deal																	
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									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: Y N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4									
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: 8/19/2024 11:36:46AM

## 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:	08/19/24 08:30	Work Order ID:	E408152
Phone:	(972) 371-5200	Date Logged In:	08/16/24 15:57	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/23/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408162

Job Number: 23003-0002

Received: 8/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/21/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/21/24

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



Project Name: Marbob State #2  
Workorder: E408162  
Date Received: 8/20/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/20/2024 5:00:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/21/24 08:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06 - 7'	E408162-01A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/21/2024 8:12:56AM
---	---	----------------------------------

FS06 - 7'

E408162-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2434024	
Benzene	ND	0.0250	1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/20/24	
Toluene	ND	0.0250	1	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		99.9 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		97.3 %	70-130	08/20/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2434024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/20/24	
Surrogate: Bromofluorobenzene		99.9 %	70-130	08/20/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/20/24	08/20/24	
Surrogate: Toluene-d8		97.3 %	70-130	08/20/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434021	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/20/24	
Surrogate: n-Nonane		92.6 %	50-200	08/20/24	08/20/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2434030	
Chloride	554	20.0	1	08/20/24	08/20/24	



## QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	<b>Reported:</b>  8/21/2024 8:12:56AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2434024-BLK1)

Prepared: 08/19/24 Analyzed: 08/19/24

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	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130			

## LCS (2434024-BS1)

Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.48	0.0250	2.50		99.0	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.3	70-130			
Toluene	2.36	0.0250	2.50		94.6	70-130			
o-Xylene	2.47	0.0250	2.50		98.8	70-130			
p,m-Xylene	4.92	0.0500	5.00		98.4	70-130			
Total Xylenes	7.39	0.0250	7.50		98.5	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

## LCS Dup (2434024-BSD1)

Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.62	0.0250	2.50		105	70-130	5.75	23	
Ethylbenzene	2.63	0.0250	2.50		105	70-130	5.81	27	
Toluene	2.48	0.0250	2.50		99.4	70-130	4.97	24	
o-Xylene	2.65	0.0250	2.50		106	70-130	6.84	27	
p,m-Xylene	5.30	0.0500	5.00		106	70-130	7.40	27	
Total Xylenes	7.94	0.0250	7.50		106	70-130	7.22	27	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  8/21/2024 8:12:56AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434024-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130			

LCS (2434024-BS2) Prepared: 08/19/24 Analyzed: 08/20/24

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.5	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

LCS Dup (2434024-BSD2) Prepared: 08/19/24 Analyzed: 08/20/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.3	70-130	2.50	20	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/21/2024 8:12:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434021-BLK1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.6		50.0		115	50-200			

LCS (2434021-BS1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Diesel Range Organics (C10-C28)	192	25.0	250		76.7	38-132			
Surrogate: n-Nonane	53.9		50.0		108	50-200			

LCS Dup (2434021-BSD1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Diesel Range Organics (C10-C28)	190	25.0	250		75.8	38-132	1.08	20	
Surrogate: n-Nonane	55.8		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/21/2024 8:12:56AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434030-BLK1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Chloride	ND	20.0							
LCS (2434030-BS1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2434030-MS1)					Source: E408161-03		Prepared: 08/20/24 Analyzed: 08/20/24		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2434030-MSD1)					Source: E408161-03		Prepared: 08/20/24 Analyzed: 08/20/24		
Chloride	254	20.0	250	ND	102	80-120	0.612	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/21/24 08:12

- 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.



## Page 1 of 1



## Envirotech Analytical Laboratory

Printed: 8/20/2024 9:13:08AM

## 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:	08/20/24 05:00	Work Order ID:	E408162
Phone:	(972) 371-5200	Date Logged In:	08/19/24 16:25	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/20/24 17:00 (0 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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? No

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408169

Job Number: 23003-0002

Received: 8/20/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/26/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/26/24

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



Project Name: Marbob State #2  
Workorder: E408169  
Date Received: 8/20/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/20/2024 5:00:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/26/24 08:39
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07 - 2'	E408169-01A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
FS08 - 2'	E408169-02A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
FS05 - 5'	E408169-03A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
SW09 - 0-2'	E408169-04A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/26/2024 8:39:10AM

FS07 - 2'

E408169-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2434015
Benzene	ND	0.0250	1	08/19/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/21/24	
Toluene	ND	0.0250	1	08/19/24	08/21/24	
o-Xylene	ND	0.0250	1	08/19/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		105 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2434015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		105 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/23/24	
Surrogate: n-Nonane		78.8 %	50-200	08/20/24	08/23/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: JM		Batch: 2434019
Chloride	102	20.0	1	08/20/24	08/20/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/26/2024 8:39:10AM

FS08 - 2'

E408169-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434015
Benzene	ND	0.0250	1	08/19/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/21/24	
Toluene	ND	0.0250	1	08/19/24	08/21/24	
o-Xylene	ND	0.0250	1	08/19/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		87.9 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		106 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		87.9 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		106 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/23/24	
Surrogate: n-Nonane		74.5 %	50-200	08/20/24	08/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434019
Chloride	101	20.0	1	08/20/24	08/20/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/26/2024 8:39:10AM

FS05 - 5'

E408169-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434015
Benzene	ND	0.0250	1	08/19/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/21/24	
Toluene	ND	0.0250	1	08/19/24	08/21/24	
o-Xylene	ND	0.0250	1	08/19/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		107 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		107 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/23/24	
Surrogate: n-Nonane		74.7 %	50-200	08/20/24	08/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434019
Chloride	567	20.0	1	08/20/24	08/20/24	





## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/26/2024 8:39:10AM

SW09 - 0-2'

E408169-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434015
Benzene	ND	0.0250	1	08/19/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/21/24	
Toluene	ND	0.0250	1	08/19/24	08/21/24	
o-Xylene	ND	0.0250	1	08/19/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434015
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/21/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/19/24	08/21/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	08/19/24	08/21/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/23/24	
Surrogate: n-Nonane		78.9 %	50-200	08/20/24	08/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434019
Chloride	22.2	20.0	1	08/20/24	08/20/24	



## QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/26/2024 8:39:10AM

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2434015-BLK1)

Prepared: 08/19/24 Analyzed: 08/20/24

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	0.565		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

## LCS (2434015-BS1)

Prepared: 08/19/24 Analyzed: 08/20/24

Benzene	2.30	0.0250	2.50		92.1	70-130			
Ethylbenzene	2.40	0.0250	2.50		96.0	70-130			
Toluene	2.47	0.0250	2.50		98.7	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.15	0.0500	5.00		103	70-130			
Total Xylenes	7.73	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

## Matrix Spike (2434015-MS1)

Source: E408159-05

Prepared: 08/19/24 Analyzed: 08/20/24

Benzene	2.28	0.0250	2.50	ND	91.2	48-131			
Ethylbenzene	2.44	0.0250	2.50	ND	97.5	45-135			
Toluene	2.61	0.0250	2.50	0.0780	101	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	0.0665	101	43-135			
Total Xylenes	7.68	0.0250	7.50	0.0665	101	43-135			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

## Matrix Spike Dup (2434015-MSD1)

Source: E408159-05

Prepared: 08/19/24 Analyzed: 08/20/24

Benzene	2.31	0.0250	2.50	ND	92.4	48-131	1.31	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	1.43	27	
Toluene	2.57	0.0250	2.50	0.0780	99.8	48-130	1.27	24	
o-Xylene	2.61	0.0250	2.50	ND	105	43-135	1.46	27	
p,m-Xylene	5.22	0.0500	5.00	0.0665	103	43-135	2.24	27	
Total Xylenes	7.83	0.0250	7.50	0.0665	104	43-135	1.98	27	
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  8/26/2024 8:39:10AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434015-BLK1) Prepared: 08/19/24 Analyzed: 08/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.565		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

LCS (2434015-BS2) Prepared: 08/19/24 Analyzed: 08/20/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.3	70-130			
Surrogate: Bromofluorobenzene	0.565		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.443		0.500		88.6	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

Matrix Spike (2434015-MS2) Source: E408159-05 Prepared: 08/19/24 Analyzed: 08/20/24

Gasoline Range Organics (C6-C10)	56.8	20.0	50.0	ND	114	70-130			
Surrogate: Bromofluorobenzene	0.574		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2434015-MSD2) Source: E408159-05 Prepared: 08/19/24 Analyzed: 08/20/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	7.91	20	
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/26/2024 8:39:10AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434027-BLK1) Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

LCS (2434027-BS1) Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	190	25.0	250		75.9	38-132			
Surrogate: n-Nonane	41.2		50.0		82.3	50-200			

Matrix Spike (2434027-MS1) Source: E408168-01 Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	197	25.0	250	ND	78.7	38-132			
Surrogate: n-Nonane	40.2		50.0		80.4	50-200			

Matrix Spike Dup (2434027-MSD1) Source: E408168-01 Prepared: 08/20/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	207	25.0	250	ND	82.6	38-132	4.87	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/26/2024 8:39:10AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434019-BLK1)					Prepared: 08/19/24 Analyzed: 08/20/24				
Chloride	ND	20.0							
LCS (2434019-BS1)					Prepared: 08/19/24 Analyzed: 08/20/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2434019-MS1)					Source: E408159-03		Prepared: 08/19/24 Analyzed: 08/20/24		
Chloride	4250	40.0	250	3320	371	80-120			M4
Matrix Spike Dup (2434019-MSD1)					Source: E408159-03		Prepared: 08/19/24 Analyzed: 08/20/24		
Chloride	3580	40.0	250	3320	103	80-120	17.1	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/26/24 08:39

- 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.





## Page 1 of 1



## Envirotech Analytical Laboratory

Printed: 8/20/2024 9:52:48AM

## 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:	08/20/24 05:00	Work Order ID:	E408169
Phone:	(972) 371-5200	Date Logged In:	08/19/24 17:25	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/26/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408186

Job Number: 23003-0002

Received: 8/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/27/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/27/24

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



Project Name: Marbob State #2  
Workorder: E408186  
Date Received: 8/22/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2024 5:30:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Southern New Mexico Area**

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  08/27/24 16:40
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08-5'	E408186-01A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/27/2024 4:40:18PM
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BH08-5'

E408186-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2434060	
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/22/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2434060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/22/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		107 %	50-200	08/22/24	08/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2434063	
Chloride	321	20.0	1	08/22/24	08/22/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  8/27/2024 4:40:18PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434060-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

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	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

LCS (2434060-BS1) Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.24	0.0250	2.50		89.5	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.2	70-130			
Toluene	2.30	0.0250	2.50		91.9	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.9	70-130			
Total Xylenes	6.80	0.0250	7.50		90.6	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike (2434060-MS1) Source: E408185-01 Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.28	0.0250	2.50	ND	91.0	48-131			
Ethylbenzene	2.36	0.0250	2.50	ND	94.4	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.33	0.0250	2.50	ND	93.3	43-135			
p,m-Xylene	4.69	0.0500	5.00	ND	93.7	43-135			
Total Xylenes	7.02	0.0250	7.50	ND	93.6	43-135			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

Matrix Spike Dup (2434060-MSD1) Source: E408185-01 Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.23	0.0250	2.50	ND	89.2	48-131	2.02	23	
Ethylbenzene	2.32	0.0250	2.50	ND	92.7	45-135	1.77	27	
Toluene	2.30	0.0250	2.50	ND	92.1	48-130	2.06	24	
o-Xylene	2.29	0.0250	2.50	ND	91.6	43-135	1.82	27	
p,m-Xylene	4.56	0.0500	5.00	ND	91.1	43-135	2.82	27	
Total Xylenes	6.85	0.0250	7.50	ND	91.3	43-135	2.49	27	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/27/2024 4:40:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434060-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

LCS (2434060-BS2) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

Matrix Spike (2434060-MS2) Source: E408185-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike Dup (2434060-MSD2) Source: E408185-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	0.750	20	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/27/2024 4:40:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434064-BLK1) Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			

LCS (2434064-BS1) Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	206	25.0	250		82.2	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2434064-MS1) Source: E408185-08 Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

Matrix Spike Dup (2434064-MSD1) Source: E408185-08 Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	17.3	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/27/2024 4:40:18PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434063-BLK1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	ND	20.0							
LCS (2434063-BS1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2434063-MS1)					Source: E408184-04		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	341	20.0	250	79.8	105	80-120			
Matrix Spike Dup (2434063-MSD1)					Source: E408184-04		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	339	20.0	250	79.8	104	80-120	0.678	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/27/24 16:40

- 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.





Page 1 of 1envirotech

## Envirotech Analytical Laboratory

Printed: 8/22/2024 12:40:38PM

## 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:	08/22/24 05:30	Work Order ID:	E408186
Phone:	(972) 371-5200	Date Logged In:	08/21/24 16:42	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/28/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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? No

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408191

Job Number: 23003-0002

Received: 8/23/2024

Revision: 4

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/28/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 8/28/24

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



Project Name: Marbob State #2  
Workorder: E408191  
Date Received: 8/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/23/2024 5:30:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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## Sample Summary

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
08/28/24 15:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS 14 - 4'	E408191-01A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 15 - 4'	E408191-02A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 16 - 4'	E408191-03A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 17 - 4'	E408191-04A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 18 - 4'	E408191-05A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 19 - 4'	E408191-06A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 20 - 4'	E408191-07A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 21 - 0'	E408191-08A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 22 - 0'	E408191-09A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 23 - 0'	E408191-10A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 24 - 0'	E408191-11A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 25 - 0'	E408191-12A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 26 - 0'	E408191-13A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 27 - 4'	E408191-14A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 28 - 4'	E408191-15A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 29 - 4'	E408191-16A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 30 - 4'	E408191-17A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 31 - 4'	E408191-18A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 32 - 4'	E408191-19A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
FS 33 - 4'	E408191-20A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW03-0-2'	E408191-21A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW04-0-7'	E408191-22A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW05-0-4'	E408191-23A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW06-0-4'	E408191-24A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW07-0-4'	E408191-25A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW08-0-4'	E408191-26A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW10-0-5'	E408191-27A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW11-0-2'	E408191-28A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW12-0-4'	E408191-29A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SW13-0-4'	E408191-30A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
---	---	----------------------------------

FS 14 - 4'

E408191-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	503	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	170	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane	84.6 %	50-200		08/27/24	08/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	142	20.0	1	08/27/24	08/27/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 15 - 4'

E408191-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	104 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	98.5	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
<i>Surrogate: n-Nonane</i>						
	84.0 %	50-200		08/27/24	08/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	293	20.0	1	08/27/24	08/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 16 - 4'

E408191-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	0.227	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	0.676	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	1.55	0.0500	1	08/27/24	08/27/24	
Total Xylenes	2.23	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID	114 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	53.7	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	2240	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	859	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane	92.1 %	50-200		08/27/24	08/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	603	20.0	1	08/27/24	08/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 17 - 4'

E408191-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0500	2	08/27/24	08/28/24	
Ethylbenzene	2.63	0.0500	2	08/27/24	08/28/24	
Toluene	0.368	0.0500	2	08/27/24	08/28/24	
o-Xylene	6.54	0.0500	2	08/27/24	08/28/24	
p,m-Xylene	17.1	0.100	2	08/27/24	08/28/24	
Total Xylenes	23.6	0.0500	2	08/27/24	08/28/24	
Surrogate: 4-Bromochlorobenzene-PID		112 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	307	40.0	2	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	7380	50.0	2	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	2590	100	2	08/27/24	08/27/24	
Surrogate: n-Nonane		188 %	50-200	08/27/24	08/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	506	20.0	1	08/27/24	08/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 18 - 4'

E408191-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	0.325	0.0250	1	08/27/24	08/27/24	
Toluene	0.171	0.0250	1	08/27/24	08/27/24	
o-Xylene	0.961	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	2.40	0.0500	1	08/27/24	08/27/24	
Total Xylenes	3.36	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID	114 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	34.1	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	4050	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	1340	50.0	1	08/27/24	08/28/24	
Surrogate: n-Nonane	106 %	50-200		08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	620	20.0	1	08/27/24	08/27/24	





## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 19 - 4'

E408191-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435067
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	0.0675	0.0250	1	08/27/24	08/27/24	
Toluene	0.0509	0.0250	1	08/27/24	08/27/24	
o-Xylene	0.232	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	0.446	0.0500	1	08/27/24	08/27/24	
Total Xylenes	0.678	0.0250	1	08/27/24	08/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.1 %	70-130	08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435066
Diesel Range Organics (C10-C28)	1570	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	497	50.0	1	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
		90.1 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2435068
Chloride	422	20.0	1	08/27/24	08/27/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 20 - 4'

E408191-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.7 %	70-130	08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	859	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	427	50.0	1	08/27/24	08/27/24	
<i>Surrogate: n-Nonane</i>						
		83.9 %	50-200	08/27/24	08/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	743	20.0	1	08/27/24	08/27/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 21 - 0'

E408191-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	0.488	0.0250	1	08/27/24	08/27/24	
Toluene	0.180	0.0250	1	08/27/24	08/27/24	
o-Xylene	1.47	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	4.07	0.0500	1	08/27/24	08/27/24	
Total Xylenes	5.54	0.0250	1	08/27/24	08/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	112 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	80.0	20.0	1	08/27/24	08/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/27/24	08/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	7580	125	5	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	4530	250	5	08/27/24	08/27/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		08/27/24	08/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	1020	20.0	1	08/27/24	08/27/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 22 - 0'

E408191-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435067
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	0.289	0.0250	1	08/27/24	08/28/24	
Toluene	0.0571	0.0250	1	08/27/24	08/28/24	
o-Xylene	0.210	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	2.48	0.0500	1	08/27/24	08/28/24	
Total Xylenes	2.69	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	64.6	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435066
Diesel Range Organics (C10-C28)	4170	50.0	2	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	1710	100	2	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2435068
Chloride	2020	40.0	2	08/27/24	08/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 23 - 0'

E408191-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	0.174	0.0250	1	08/27/24	08/28/24	
Toluene	0.0409	0.0250	1	08/27/24	08/28/24	
o-Xylene	0.454	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	1.28	0.0500	1	08/27/24	08/28/24	
Total Xylenes	1.73	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	33.7	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.6 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	5540	50.0	2	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	3630	100	2	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
		98.7 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	890	20.0	1	08/27/24	08/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 24 - 0'

E408191-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	0.216	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	0.706	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	1.66	0.0500	1	08/27/24	08/28/24	
Total Xylenes	2.36	0.0250	1	08/27/24	08/28/24	
Surrogate: 4-Bromochlorobenzene-PID	114 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	58.4	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	3270	50.0	2	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	1230	100	2	08/27/24	08/28/24	
Surrogate: n-Nonane	101 %	50-200		08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	620	20.0	1	08/27/24	08/27/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 25 - 0'

E408191-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	0.430	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	1.24	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	3.04	0.0500	1	08/27/24	08/28/24	
Total Xylenes	4.28	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	116 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	79.6	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	5450	50.0	2	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	2080	100	2	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
	96.5 %	50-200		08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	1090	20.0	1	08/27/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 26 - 0'

E408191-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	0.113	0.0250	1	08/27/24	08/28/24	
Toluene	0.0472	0.0250	1	08/27/24	08/28/24	
o-Xylene	0.389	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	0.943	0.0500	1	08/27/24	08/28/24	
Total Xylenes	1.33	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	114 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	21.2	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	9530	50.0	2	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	2780	100	2	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	1860	20.0	1	08/27/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 27 - 4'

E408191-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	ND	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/28/24	
Surrogate: 4-Bromochlorobenzene-PID	108 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	71.6	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	53.6	50.0	1	08/27/24	08/28/24	
Surrogate: n-Nonane	91.1 %	50-200		08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	113	20.0	1	08/27/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 28 - 4'

E408191-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	ND	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
		84.0 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	270	20.0	1	08/27/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 29 - 4'

E408191-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	ND	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/28/24	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/28/24	
Surrogate: n-Nonane	83.6 %	50-200		08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	336	20.0	1	08/27/24	08/28/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 30 - 4'

E408191-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	ND	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
		82.8 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	231	20.0	1	08/27/24	08/28/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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FS 31 - 4'

E408191-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	ND	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
		82.0 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	428	20.0	1	08/27/24	08/28/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 32 - 4'

E408191-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	ND	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>						
		72.9 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	397	20.0	1	08/27/24	08/28/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

FS 33 - 4'

E408191-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Benzene	ND	0.0250	1	08/27/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/28/24	
Toluene	ND	0.0250	1	08/27/24	08/28/24	
o-Xylene	ND	0.0250	1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2435067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	08/27/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2435066	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/28/24	
<i>Surrogate: n-Nonane</i>		84.1 %	50-200	08/27/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2435068	
Chloride	492	20.0	1	08/27/24	08/28/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

SW03-0-2'

E408191-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/23/24	
<i>Surrogate: n-Nonane</i>						
	92.9 %	50-200		08/23/24	08/23/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	194	20.0	1	08/23/24	08/23/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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SW04-0-7'  
E408191-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID	90.6 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/23/24	
Surrogate: n-Nonane	99.8 %	50-200		08/23/24	08/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	413	20.0	1	08/23/24	08/23/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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SW05-0-4'  
E408191-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID	91.4 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane	92.0 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	97.3	20.0	1	08/23/24	08/23/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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SW06-0-4'  
E408191-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	0.0680	0.0250	1	08/23/24	08/23/24	
Toluene	0.0868	0.0250	1	08/23/24	08/23/24	
o-Xylene	0.163	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	0.600	0.0500	1	08/23/24	08/23/24	
Total Xylenes	0.763	0.0250	1	08/23/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.4 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	40.8	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	ND	20.0	1	08/23/24	08/23/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

SW07-0-4'

E408191-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
<i>Surrogate: n-Nonane</i>						
	92.8 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	ND	20.0	1	08/23/24	08/23/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/28/2024 3:35:09PM

SW08-0-4'

E408191-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	<b>0.0309</b>	0.0250	1	08/23/24	08/23/24	
o-Xylene	<b>0.0549</b>	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	<b>0.204</b>	0.0500	1	08/23/24	08/23/24	
Total Xylenes	<b>0.258</b>	0.0250	1	08/23/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	<b>104</b>	20.0	1	08/23/24	08/23/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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SW10-0-5'  
E408191-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	0.0296	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	0.0883	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	0.256	0.0500	1	08/23/24	08/23/24	
Total Xylenes	0.344	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane	92.6 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	568	20.0	1	08/23/24	08/23/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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SW11-0-2'  
E408191-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
<i>Surrogate: n-Nonane</i>						
	97.9 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	329	20.0	1	08/23/24	08/23/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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SW12-0-4'  
E408191-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	0.0576	0.0500	1	08/23/24	08/23/24	
Total Xylenes	0.0576	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	28.7	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane	91.4 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	336	20.0	1	08/23/24	08/23/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:35:09PM
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SW13-0-4'  
E408191-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2434079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		08/23/24	08/23/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434075	
Diesel Range Organics (C10-C28)	142	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane	92.0 %	50-200		08/23/24	08/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2434082	
Chloride	112	20.0	1	08/23/24	08/23/24	





QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2434079-BLK1) Prepared: 08/23/24 Analyzed: 08/23/24

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	7.12		8.00		89.0	70-130			

LCS (2434079-BS1) Prepared: 08/23/24 Analyzed: 08/23/24

Benzene	4.89	0.0250	5.00		97.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.3	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

Matrix Spike (2434079-MS1) Source: E408193-01 Prepared: 08/23/24 Analyzed: 08/23/24

Benzene	4.88	0.0250	5.00	ND	97.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133			
Toluene	4.83	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.3	63-131			
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			

Matrix Spike Dup (2434079-MSD1) Source: E408193-01 Prepared: 08/23/24 Analyzed: 08/23/24

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.42	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133	2.96	20	
Toluene	5.00	0.0250	5.00	ND	99.9	61-130	3.33	20	
o-Xylene	4.87	0.0250	5.00	ND	97.5	63-131	3.34	20	
p,m-Xylene	9.93	0.0500	10.0	ND	99.3	63-131	3.02	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.7	63-131	3.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  8/28/2024 3:35:09PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435067-BLK1) Prepared: 08/27/24 Analyzed: 08/27/24

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	8.00		8.00		100	70-130			

LCS (2435067-BS1) Prepared: 08/27/24 Analyzed: 08/27/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	4.96	0.0250	5.00		99.2	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			

LCS Dup (2435067-BSD1) Prepared: 08/27/24 Analyzed: 08/27/24

Benzene	4.56	0.0250	5.00		91.3	70-130	3.74	20	
Ethylbenzene	4.83	0.0250	5.00		96.6	70-130	3.43	20	
Toluene	4.78	0.0250	5.00		95.7	70-130	3.64	20	
o-Xylene	4.85	0.0250	5.00		97.0	70-130	3.47	20	
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130	3.46	20	
Total Xylenes	14.7	0.0250	15.0		98.1	70-130	3.46	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434079-BLK1) Prepared: 08/23/24 Analyzed: 08/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

LCS (2434079-BS2) Prepared: 08/23/24 Analyzed: 08/23/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

Matrix Spike (2434079-MS2) Source: E408193-01 Prepared: 08/23/24 Analyzed: 08/23/24

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.19		8.00		102	70-130			

Matrix Spike Dup (2434079-MSD2) Source: E408193-01 Prepared: 08/23/24 Analyzed: 08/23/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.1	70-130	2.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.16		8.00		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435067-BLK1) Prepared: 08/27/24 Analyzed: 08/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

LCS (2435067-BS2) Prepared: 08/27/24 Analyzed: 08/27/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS Dup (2435067-BSD2) Prepared: 08/27/24 Analyzed: 08/27/24

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		96.0	70-130	1.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434075-BLK1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS (2434075-BS1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Diesel Range Organics (C10-C28)	203	25.0	250		81.1	38-132			
Surrogate: n-Nonane	44.3		50.0		88.7	50-200			

Matrix Spike (2434075-MS1)					Source: E408191-30		Prepared: 08/23/24 Analyzed: 08/23/24		
Diesel Range Organics (C10-C28)	346	25.0	250	142	81.7	38-132			
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			

Matrix Spike Dup (2434075-MSD1)					Source: E408191-30		Prepared: 08/23/24 Analyzed: 08/23/24		
Diesel Range Organics (C10-C28)	348	25.0	250	142	82.3	38-132	0.441	20	
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2435066-BLK1) Prepared: 08/27/24 Analyzed: 08/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			

LCS (2435066-BS1) Prepared: 08/27/24 Analyzed: 08/27/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.4	38-132			
Surrogate: n-Nonane	43.0		50.0		85.9	50-200			

LCS Dup (2435066-BSD1) Prepared: 08/27/24 Analyzed: 08/27/24

Diesel Range Organics (C10-C28)	215	25.0	250		85.8	38-132	0.442	20	
Surrogate: n-Nonane	43.2		50.0		86.3	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/28/2024 3:35:09PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2434082-BLK1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	ND	20.0							
LCS (2434082-BS1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2434082-MS1)					Source: E408193-03		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	266	20.0	250	ND	107	80-120			
Matrix Spike Dup (2434082-MSD1)					Source: E408193-03		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	266	20.0	250	ND	106	80-120	0.339	20	





QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2435068-BLK1)					Prepared: 08/27/24 Analyzed: 08/27/24				
Chloride	ND	20.0							
LCS (2435068-BS1)					Prepared: 08/27/24 Analyzed: 08/27/24				
Chloride	256	20.0	250		103	90-110			
LCS Dup (2435068-BSD1)					Prepared: 08/27/24 Analyzed: 08/27/24				
Chloride	256	20.0	250		103	90-110	0.0515	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/28/24 15:35

- 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.



## Chain of Custody

Page 1 of 4

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Marbob State #2				Address: 3122 National Parks Hwy		E408191		23003-0002				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
0756	8/21/24	S	1	FS 14 - 4'		1						X					
0756	8/21/24	S	1	FS 15 - 4'		2						X					
0757	8/21/24	S	1	FS 16 - 4'		3						X					
0758	8/21/24	S	1	FS 17 - 4'		4						X					
0802	8/21/24	S	1	FS 18 - 4'		5						X					
0755	8/21/24	S	1	FS 19 - 4'		6						X					
0800	8/21/24	S	1	FS 20 - 4'		7						X					
0821	8/21/24	S	1	FS 21 - 0'		8						X					
0822	8/21/24	S	1	FS 22 - 0'		9						X					
0823	8/21/24	S	1	FS 23 - 0'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@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: <u>Brandon Deal</u>																	
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: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
<u>Brandon Deal</u>		8/22/24	6:20 am	<u>Michelle Kuhl</u>		8-22-24	0620										
<u>Michelle Kuhl</u>		8-22-24	1630	<u>Andrew H880</u>		8-22-24	1630										
<u>Andrew H880</u>		8-22-24	2245	<u>Highly R. Hill</u>		8-23-24	0530										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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.																	





## Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Marbob State #2				Address: 3122 National Parks Hwy		E408191		Job Number				23003-0002					
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						Analysis and Method								EPA Program			
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	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0815	8/21/24	S	1	FS 24-0'		11						X					
0817	8/21/24	S	1	FS 25-0'		12						X					
0820	8/21/24	S	1	FS 26-0'		13						X					
0915	8/21/24	S	1	FS 27-4'		14						X					
1113	8/21/24	S	1	FS 28-4'		15						X					
0923	8/21/24	S	1	FS 29-4'		16						X					
0929	8/21/24	S	1	FS 30-4'		17						X					
0931	8/21/24	S	1	FS 31-4'		18						X					
0935	8/21/24	S	1	FS 32-4'		19						X					
0934	8/21/24	S	1	FS 33-4'		20						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@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.																	
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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: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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.																	





## Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Marbob State #2				Address: 3122 National Parks Hwy		E408191		Job Number				23003-0002					
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						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
1240	8/21/24	S	1	SW03 - 0-2'		21						X					
0725	8/21/24	S	1	SW04 - 0-7'		22						X					
0721	8/21/24	S	1	SW05 - 0-4'		23						X					
0731	8/21/24	S	1	SW06 - 0-4'		24						X					
0738	8/21/24	S	1	SW07 - 0-4'		25						X					
0737	8/21/24	S	1	SW08 - 0-4'		26						X					
0748	8/21/24	S	1	SW10 - 0-5'		27						X					
1225	8/21/24	S	1	SW11 - 0-2'		28						X					
0745	8/21/24	S	1	SW12 - 0-4'		29						X					
0733	8/21/24	S	1	SW13 - 0-4'		30						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@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: <u>Brandon Dent</u>																	
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: <u>Y</u> / N T1 <u>          </u> T2 <u>          </u> T3 <u>          </u> AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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: 8/23/2024 10:31:30AM

## 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:	08/23/24 05:30	Work Order ID:	E408191
Phone:	(972) 371-5200	Date Logged In:	08/22/24 16:16	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/26/24 17:00 (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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Visible whiteout on COC.

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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408284

Job Number: 23003-0002

Received: 9/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/9/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 9/9/24

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



Project Name: Marbob State #2  
Workorder: E408284  
Date Received: 9/3/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/3/2024 5:00:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/09/24 12:03
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 - 6'	E408284-01A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW02 - 0-2'	E408284-02A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
FS27 - 4.5'	E408284-03A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2024 12:03:55PM

**BH04 - 6'**

**E408284-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	09/03/24	09/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	09/03/24	09/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	09/03/24	09/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	09/03/24	09/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
<i>Surrogate: n-Nonane</i>		95.1 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2436018
Chloride	176	20.0	1	09/03/24	09/04/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2024 12:03:55PM

SW02 - 0-2'

E408284-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane	98.2 %	50-200		09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436018	
Chloride	ND	20.0	1	09/03/24	09/04/24	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2024 12:03:55PM

FS27 - 4.5'

E408284-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	101 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	101 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane	97.0 %	50-200		09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2436018
Chloride	75.4	20.0	1	09/03/24	09/04/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/9/2024 12:03:55PM

Volatile Organic Compounds by EPA 8260B

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 (2436013-BLK1)

Prepared: 09/03/24 Analyzed: 09/04/24

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	0.469		0.500		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2436013-BS1)

Prepared: 09/03/24 Analyzed: 09/03/24

Benzene	2.22	0.0250	2.50		88.8	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.6	70-130			
Toluene	2.40	0.0250	2.50		96.0	70-130			
o-Xylene	2.38	0.0250	2.50		95.1	70-130			
p,m-Xylene	4.78	0.0500	5.00		95.5	70-130			
Total Xylenes	7.15	0.0250	7.50		95.4	70-130			
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2436013-MS1)

Source: E408282-25 Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	2.24	0.0250	2.50	ND	89.8	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.44	0.0250	2.50	ND	97.5	48-130			
o-Xylene	2.38	0.0250	2.50	ND	95.0	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	95.0	43-135			
Total Xylenes	7.12	0.0250	7.50	ND	95.0	43-135			
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2436013-MSD1)

Source: E408282-25 Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	2.06	0.0250	2.50	ND	82.3	48-131	8.65	23	
Ethylbenzene	2.09	0.0250	2.50	ND	83.8	45-135	9.33	27	
Toluene	2.19	0.0250	2.50	ND	87.8	48-130	10.5	24	
o-Xylene	2.28	0.0250	2.50	ND	91.2	43-135	4.13	27	
p,m-Xylene	4.52	0.0500	5.00	ND	90.4	43-135	4.94	27	
Total Xylenes	6.80	0.0250	7.50	ND	90.6	43-135	4.67	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			





## QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/9/2024 12:03:55PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2436013-BLK1)

Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.469		0.500		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

## LCS (2436013-BS2)

Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.0	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

## Matrix Spike (2436013-MS2)

Source: E408282-25

Prepared: 09/03/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0	ND	79.5	70-130			
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

## Matrix Spike Dup (2436013-MSD2)

Source: E408282-25

Prepared: 09/03/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0	ND	80.0	70-130	0.609	20	
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/9/2024 12:03:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436008-BLK1)	Prepared: 09/03/24 Analyzed: 09/03/24								
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

LCS (2436008-BS1)	Prepared: 09/03/24 Analyzed: 09/03/24								
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			

Matrix Spike (2436008-MS1)				Source: E408283-01	Prepared: 09/03/24 Analyzed: 09/03/24				
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike Dup (2436008-MSD1)				Source: E408283-01	Prepared: 09/03/24 Analyzed: 09/03/24				
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	3.76	20	
Surrogate: n-Nonane	48.1		50.0		96.1	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  9/9/2024 12:03:55PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436018-BLK1)					Prepared: 09/03/24 Analyzed: 09/04/24				
Chloride	ND	20.0							
LCS (2436018-BS1)					Prepared: 09/03/24 Analyzed: 09/04/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2436018-MS1)					Source: E408283-03		Prepared: 09/03/24 Analyzed: 09/04/24		
Chloride	1020	20.0	250	768	101	80-120			
Matrix Spike Dup (2436018-MSD1)					Source: E408283-03		Prepared: 09/03/24 Analyzed: 09/04/24		
Chloride	1020	20.0	250	768	102	80-120	0.0865	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/09/24 12:03

- 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.



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## Envirotech Analytical Laboratory

Printed: 9/3/2024 7:21:16AM

## 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:	09/03/24 05:00	Work Order ID:	E408284
Phone:	(972) 371-5200	Date Logged In:	08/30/24 16:22	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	09/09/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E409165

Job Number: 23003-0002

Received: 9/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/25/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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: 9/25/24

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



Project Name: Marbob State #2  
Workorder: E409165  
Date Received: 9/19/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/19/2024 8:00:00AM, under the Project Name: Marbob State #2.

The analytical test results summarized in this report with the Project Name: Marbob State #2 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 regarding 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](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/25/24 15:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS10 - 0'	E409165-01A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: Marbob State #2  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
9/25/2024 3:11:41PM

**SS10 - 0'**

**E409165-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		105 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438136
Chloride	45.3	20.0	1	09/20/24	09/20/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:  9/25/2024 3:11:41PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438117-BLK1) Prepared: 09/19/24 Analyzed: 09/25/24

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	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2438117-BS1) Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	2.33	0.0250	2.50		93.1	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.9	70-130			
Toluene	2.32	0.0250	2.50		92.7	70-130			
o-Xylene	2.29	0.0250	2.50		91.7	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS Dup (2438117-BSD1) Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	2.35	0.0250	2.50		94.0	70-130	0.919	23	
Ethylbenzene	2.34	0.0250	2.50		93.5	70-130	0.579	27	
Toluene	2.33	0.0250	2.50		93.0	70-130	0.323	24	
o-Xylene	2.37	0.0250	2.50		95.0	70-130	3.49	27	
p,m-Xylene	4.71	0.0500	5.00		94.2	70-130	2.99	27	
Total Xylenes	7.08	0.0250	7.50		94.4	70-130	3.16	27	
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2024 3:11:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438117-BLK1) Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2438117-BS2) Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.3	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS Dup (2438117-BSD2) Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130	0.475	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2024 3:11:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438127-BLK1) Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.3	50-200			

LCS (2438127-BS1) Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	216	25.0	250		86.3	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

LCS Dup (2438127-BSD1) Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	224	25.0	250		89.6	38-132	3.72	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Marbob State #2 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  9/25/2024 3:11:41PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438136-BLK1)					Prepared: 09/20/24 Analyzed: 09/20/24				
Chloride	ND	20.0							
LCS (2438136-BS1)					Prepared: 09/20/24 Analyzed: 09/20/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2438136-MS1)					Source: E409166-06		Prepared: 09/20/24 Analyzed: 09/20/24		
Chloride	352	20.0	250	96.9	102	80-120			
Matrix Spike Dup (2438136-MSD1)					Source: E409166-06		Prepared: 09/20/24 Analyzed: 09/20/24		
Chloride	359	20.0	250	96.9	105	80-120	1.94	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 #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/25/24 15:11

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.



[illegible]



## Envirotech Analytical Laboratory

Printed: 9/19/2024 9:02:12AM

## 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:	09/19/24 08:00	Work Order ID:	E409165
Phone:	(972) 371-5200	Date Logged In:	09/18/24 14:55	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/25/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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? No

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.





## APPENDIX F

### NMOCD Correspondence

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**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Ashley Giovengo](#); [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); [Jason Touchet](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [Israel Estrella](#); [Brandon Deal](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** Extension Request - Marbob State #2 - Incident Number nAPP2406626875  
**Date:** Thursday, May 30, 2024 11:11:35 AM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)

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[ \*\*EXTERNAL EMAIL\*\* ]

RE: Incident #NAPP2406626875

**Ashley,**

Your request for a 90 day extension to **August 28th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Thursday, May 30, 2024 10:39 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); [Jason Touchet](mailto:Jason.Touchet@matadorresources.com) <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>; Israel Estrella <[iestrella@ensolum.com](mailto:iestrella@ensolum.com)>; Brandon Deal <[bdeal@ensolum.com](mailto:bdeal@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request - Marbob State #2 - Incident Number nAPP2406626875

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

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of June

03, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Marbob State #2 (Incident Number nAPP2406626875). The release occurred on March 05, 2024, and as a result, 84 barrels (bbls) of crude oil were released inside an earthen containment; approximately 40 bbls of crude oil were recovered. The release breached the containment, ran down the lease road, and impacted a pasture area off-pad. Since the release impacted an area off-pad and on State Trust Land, an ARMS review was completed by Beaver Creek Archaeology. During the ARMS review, it was determined that the release impacted an area that had not been surveyed for cultural properties and in order to comply with the Cultural Properties Protection Rule (19.2.24 NMAC), a survey would need to be completed prior to the excavation and remediation of the subject area release. The archaeological survey has been scheduled and a Right-of-Entry Permit (ROE) has been mailed to the commissioner of Public Lands Office. Lateral and Vertical delineation sampling has been completed in accordance with the strictest Closure Criteria per NMOCD Table I. In order to complete the archaeological survey and to receive an approved ROE permit, Matador hereby requests a 90-day extension of the aforementioned deadline until September 01, 2024. Matador intends to complete the excavation and remediation of the impacted area and to submit a remediation work plan or closure report following confirmation sampling activities.

Thanks,



**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

**in f X**

"Your authenticity is your superpower." – Unknown

**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Ashley Giovengo](#); [Jason Touchet](#); [Arsenio Jones](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)  
**Subject:** (Final Extension) - Marbob State #2 - Incident Number nAPP2406626875  
**Date:** Monday, August 26, 2024 11:08:33 AM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)

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[ \*\*EXTERNAL EMAIL\*\* ]

RE: Incident #**NAPP2406626875**

**Ashley,**

Your request for a 90 day extension to **November 25th, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Monday, August 26, 2024 9:26 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; Arsenio Jones <[arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com)>  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request - Marbob State #2 - Incident Number nAPP2406626875

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

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of August 28, 2024, for submitting a remediation work plan or closure report required in

19.15.29.12.B.(1) NMAC at the Marbob State #2 (Site) (Incident Number nAPP2406626875). The release occurred on March 05, 2024, and lateral and vertical delineation sampling to the strictest Closure Criteria per NMOCD Table I has been completed. Due to the release impacting areas off-pad, Matador requested an extension on May 30, 2024, in order to submit a Right-of-Entry Permit (ROE) and to complete an ARMS Review. Once Matador received the executed ROE permit and a copy of the SLO Cover Sheet, exaction activities began at the Site. Ensolum oversaw the excavation of the on-pad and off-pad release area's beginning on August 12, 2024, through August 21, 2024. Following excavation activities, Ensolum personnel collected confirmation samples every 200 square feet from the floor and sidewalls of the excavation. Based on laboratory analytical results, at least 1 confirmation sidewall sample exceeded the Site Closure Criteria. Ensolum will return to the Site on August 29, 2024, to complete additional excavation activities and to recollect any failing confirmation samples. Matador intends to submit a remediation work plan or closure report, upon receiving final laboratory analytical results from confirmation sampling activities. Matador respectfully requests an extension until October 27, 2024.

Thanks,



**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

**in f X**

"Your authenticity is your superpower." – Unknown

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 320630

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320630
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

<b>Location of Release Source</b> <i>Please answer all the questions in this group.</i>	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

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

<b>Nature and Volume of Release</b> <i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Crude Oil   Released: 84 BBL   Recovered: 40 BBL   Lost: 44 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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

QUESTIONS, Page 2

Action 320630

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320630
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS  
  
Action 320630

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320630
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 320630

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320630
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
c_talley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	3/6/2024

Impacted Soil	
Saturated Soil (inches)	
	6
	1274.5
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	40
Soil type	
pad caliche	
Spill type	
oil(crude)	
Barrel estimate in soil	
	15.1
Barrel estimate (standing fluids/ recovered+in soil)	
	55.1

need to populate or select

Impacted Soil	
Saturated Soil (inches)	
	6
	1795
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	0
Soil type	
	Silty-sand
Spill type	
	oil(crude)
Barrel estimate in soil	
	25.6
Barrel estimate (standing fluids/ recovered+in soil)	
	25.6

need to populate or select

<b>Impacted Soil</b>
Saturated Soil (inches)
1
815
<b>Standing fluids</b>
inches of standing fluid
0
bbl estimate of standing fluids
barrels recovered (if known)
0
<b>Soil type</b>
pad caliche
<b>Spill type</b>
oil(crude)
<b>Barrel estimate in soil</b>
1.6
Barrel estimate (standing fluids/ recovered+in soil)
1.6

need to populate or select



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

QUESTIONS  
  
Action 320812

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320812
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

<b>Location of Release Source</b>	
Please answer all the questions in this group.	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

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

<b>Nature and Volume of Release</b>	
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	Cause: Equipment Failure   Tank (Any)   Crude Oil   Released: 84 BBL   Recovered: 40 BBL   Lost: 44 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 320812

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320812
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 03/06/2024
--	--

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QUESTIONS, Page 3

Action 320812

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320812
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

**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	No
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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CONDITIONS

Action 320812

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 320812
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	3/6/2024

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QUESTIONS  
  
Action 370768

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370768
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

Location of Release Source	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,041
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/12/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.64054, -104.10738

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CONDITIONS

Action 370768

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370768
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/6/2024

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QUESTIONS  
  
Action 370769

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370769
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

Location of Release Source	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,041
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/13/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.64054, -104.10738



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CONDITIONS

Action 370769

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370769
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/6/2024

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QUESTIONS  
  
Action 370771

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370771
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

Location of Release Source	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,041
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/14/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.64054, -104.10738

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CONDITIONS  
  
Action 370771

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370771
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/6/2024

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QUESTIONS  
  
Action 370772

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370772
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

Location of Release Source	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,041
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.64054, -104.10738

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CONDITIONS  
  
Action 370772

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370772
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/6/2024

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**Santa Fe, NM 87505**

QUESTIONS

Action 370777

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370777
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

**Location of Release Source**

Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

**Sampling Event General Information***Please answer all the questions in this group.*

What is the sampling surface area in square feet	4,041
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/16/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.64054, -104.10738

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CONDITIONS  
  
Action 370777

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370777
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/6/2024



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QUESTIONS  
  
Action 374833

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 374833
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

Location of Release Source	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,041
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/21/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.64054, -104.10738

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
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Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 374833

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 374833
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/19/2024

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QUESTIONS  
  
Action 377524

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377524
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

Location of Release Source	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,041
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/29/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.64054, -104.10738

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CONDITIONS  
  
Action 377524

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377524
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/26/2024

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QUESTIONS

Action 408978

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 408978
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406626875
Incident Name	NAPP2406626875 MARBOB STATE #2 @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2203373697] Marbob 2 Facility Tank Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Marbob State #2
Date Release Discovered	03/05/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Crude Oil   Released: 84 BBL   Recovered: 40 BBL   Lost: 44 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 408978

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 408978
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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 Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 12/05/2024
--	--

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QUESTIONS, Page 3

Action 408978

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 408978
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3250
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	72500
GRO+DRO (EPA SW-846 Method 8015M)	57520
BTEX (EPA SW-846 Method 8021B or 8260B)	211
Benzene (EPA SW-846 Method 8021B or 8260B)	2
<i>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>	
On what estimated date will the remediation commence	08/12/2024
On what date will (or did) the final sampling or liner inspection occur	08/29/2024
On what date will (or was) the remediation complete(d)	08/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	3815
What is the estimated volume (in cubic yards) that will be reclaimed	936
What is the estimated surface area (in square feet) that will be remediated	3815
What is the estimated volume (in cubic yards) that will be remediated	936
<i>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.</i>	
<i>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.</i>	



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QUESTIONS, Page 4

Action 408978

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 408978
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	<b>Yes</b>
Which OCD approved facility will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	<i>Not answered.</i>
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	<b>Yes</b>
What is the name of the NMED facility	R360
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>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>	
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 Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 12/05/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 408978

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 408978
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Remaining impacted area remains around or under crude oil, produced water tanks, and production piping.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2032
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	361
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-33570 MARBOB STATE #002
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>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>	
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 Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 12/05/2024

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QUESTIONS, Page 6

Action 408978

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 408978
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	377524
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/29/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	4041

**Remediation Closure Request**

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
--	----

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CONDITIONS

Action 408978

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 408978
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Matador's deferral requests final remediation for (Incident Number NAPP2406626875) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and Matador do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 4 that is limited to the area around active production equipment, process piping, and production tanks, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record. The release will remain open in OCD database files and reflect an open environmental issue.	3/7/2025