

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 Hydrdrocarbons (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 in 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.



#### **EXCAVATION AND CONFIRMATION SAMPLING ACTIVITIES**

Prior to beginning excavation activities at the Site, an archaeological survey was conducted by Beaver Creek Archaeology (NMCRIS 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



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, erodedaccording 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:
  - o The placement of waddles in areas with a propensity for high run off rates;
  - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
  - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- 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



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, 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.

Sincerely, Ensolum, LLC

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



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

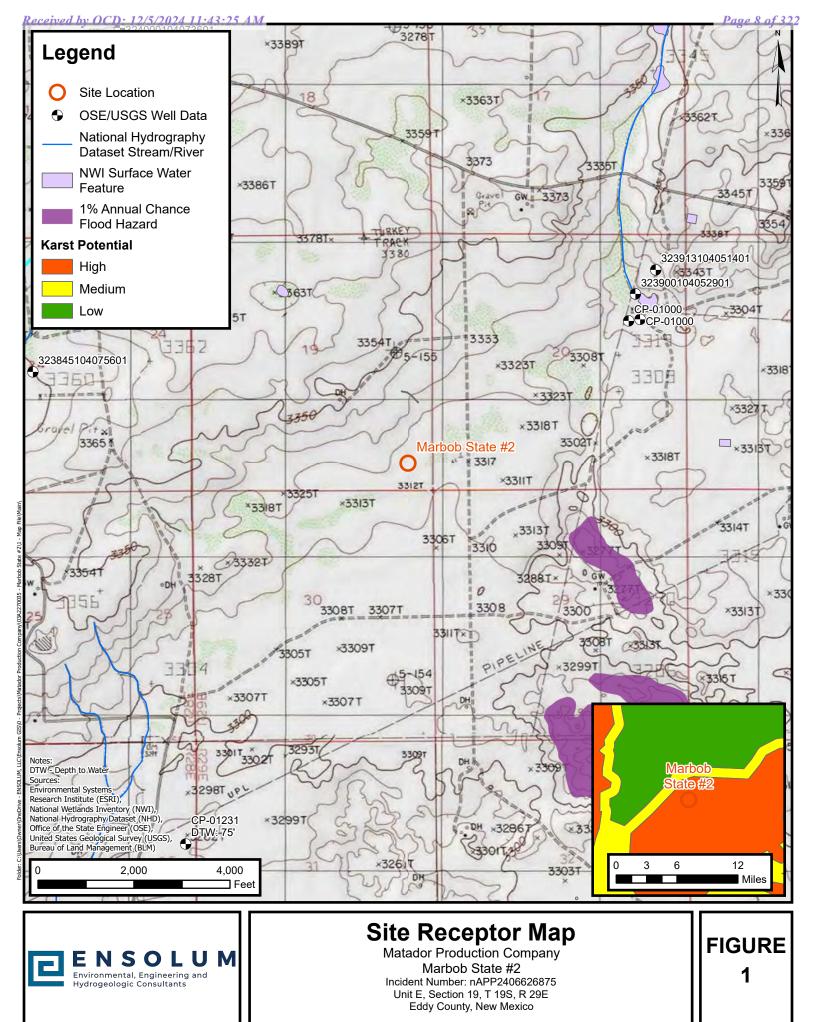
Appendix D NMSLO Cultural Resources Cover Sheet

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

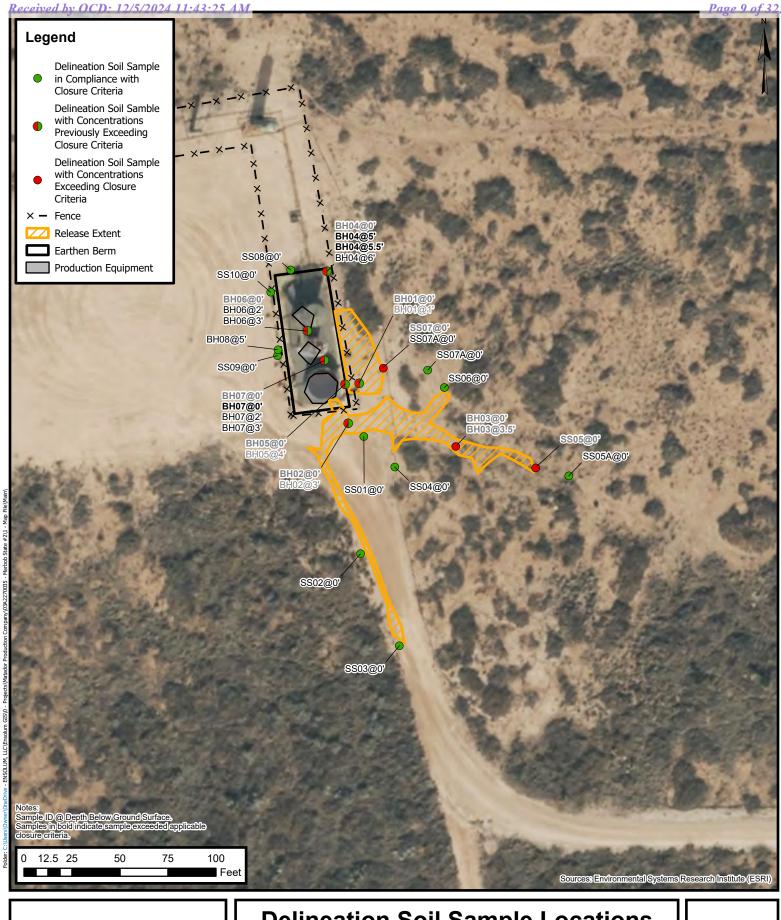
Appendix F NMOCD Notifications



**FIGURES** 



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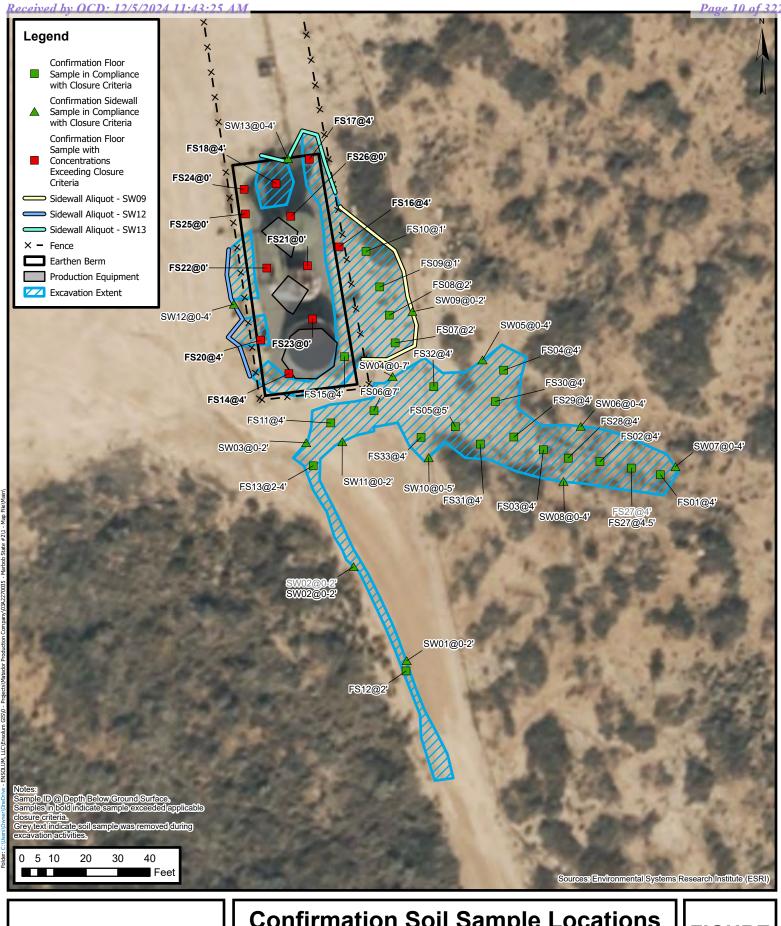




# **Delineation Soil Sample Locations**

Matador Production Company Marbob State #2 Incident Number: nAPP2406626875 Unit E, Section 19, T 19S, R 29E Eddy County, New Mexico

**FIGURE** 2

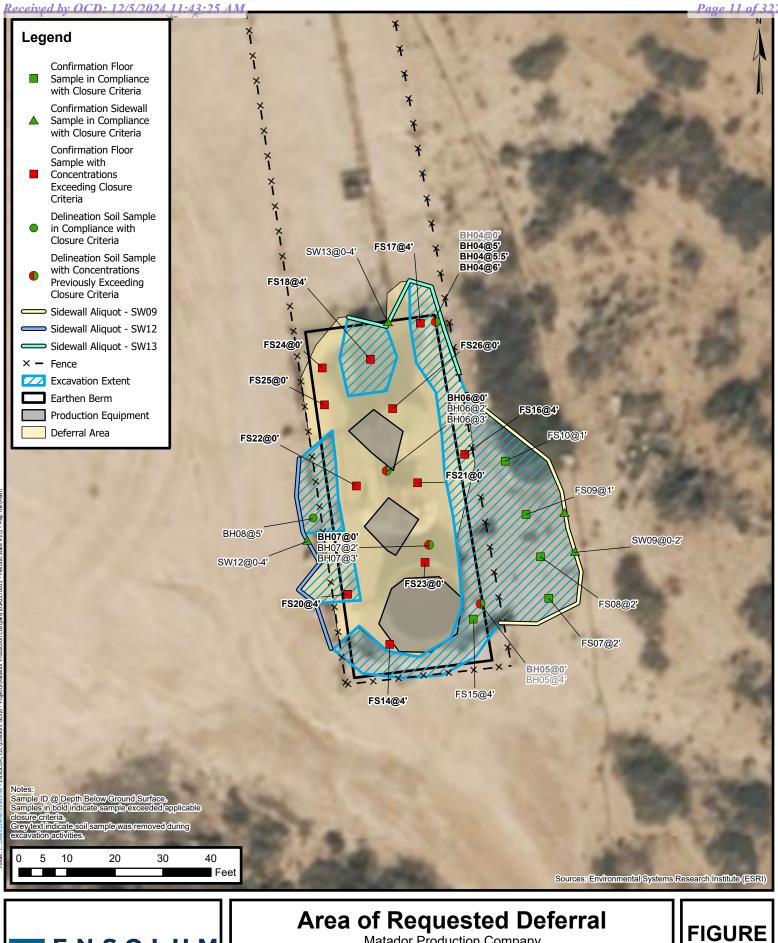




# **Confirmation Soil Sample Locations**

Matador Production Company Marbob State #2 Incident Number: nAPP2406626875 Unit E, Section 19, T 19S, R 29E Eddy County, New Mexico

**FIGURE** 3





Matador Production Company Marbob State #2 Incident Number: nAPP2406626875 Unit E, Section 19, T 19S, R 29E Eddy County, New Mexico FIGURE 4



**TABLES** 

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# TABLE 1

## **SOIL SAMPLE ANALYTICAL RESULTS**

Marbob State #2 **Matador Production Company Eddy County, New Mexico** 

				Euus	County, New M	EXICO				
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
				Delin	eation Soil Sar	nples				
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	03/182024	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

"<": Laboratory Analytical result is less than reporting limit

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

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TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

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## TABLE 1 - CONT'D

## **SOIL SAMPLE ANALYTICAL RESULTS**

Marbob State #2
Matador Production Company
Eddy County, New Mexico

					County, New Mic	24.00				
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
				Delir	neation Soil San	nples				
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

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Grey text represents samples that have been excavated "<": Laboratory Analytical result is less than reporting limit

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

GRO: Gasoline Range Organics
DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

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# TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS

Marbob State #2
Matador Production Company
Eddy County, New Mexico

	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		
				Excava	tion Floor Soil S	amples						
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	3,153	603		
FS17	8/21/2024	4	<0.0500	26.6	307	7,380	2,590	7,687	10,277	506		
FS18	8/21/2024	4	<0.0250	3.86	34.1	4,050	1,340	4,084	5,424	620		
FS19	8/21/2024	4	<0.0250	0.796	<20.0	1,570	497	1,570	2,067	422		
FS20	8/21/2024	4	<0.0250	<0.0500	<20.0	859	427	859	1,286	743		
FS21	8/21/2024	0	<0.0250	6.21	80.0	7,580	4,530	7,660	12,190	1,020		
FS22	8/21/2024	0	<0.0250	3.04	64.6	4,170	1,710	4,235	5,945	2,020		
FS23	8/21/2024	0	< 0.0250	1.94	33.7	5,540	3,630	5,574	9,204	890		

Released to Imaging: 3/7/2025 3:22:33 PM

Page 16 of 322 Received by OCD: 12/5/2024 11:43:25 AM



## **TABLE 2 - CONT'D SOIL SAMPLE ANALYTICAL RESULTS**

Marbob State #2 **Matador Production Company** Eddy County, New Mexico

				Euu	y County, New M	EXICO				
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
				Excava	tion Floor Soil S	Samples				
FS24	8/21/2024	0	<0.0250	2.58	58.4	3,270	1,230	3,328	4,558	620
FS25	8/21/2024	0	<0.0250	4.71	79.6	5,450	2,080	5,530	7,610	1,090
FS26	8/21/2024	0	<0.0250	1.49	21.2	9,530	2,780	9,551	12,331	1,860
FS27	8/21/2024	4	< 0.0250	< 0.0500	<20.0	71.6	53.6	71.6	125	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 "<": Laboratory Analytical result is less than reporting limit

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

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics

Received by OCD: 12/5/2024 11:43:25 AM



## TABLE 3

## **SOIL SAMPLE ANALYTICAL RESULTS**

Marbob State #2
Matador Production Company
Eddy County, New Mexico

					oounty, Now Inc	ZAICC				
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
				Sic	dewall Soil Samp	les				
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

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

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

--: Not Reported

<sup>&</sup>quot;<": Laboratory Analytical result is less than reporting limit

<sup>\*</sup> 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.



**APPENDIX A** 

Well Log and Record



# WELL L. CORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

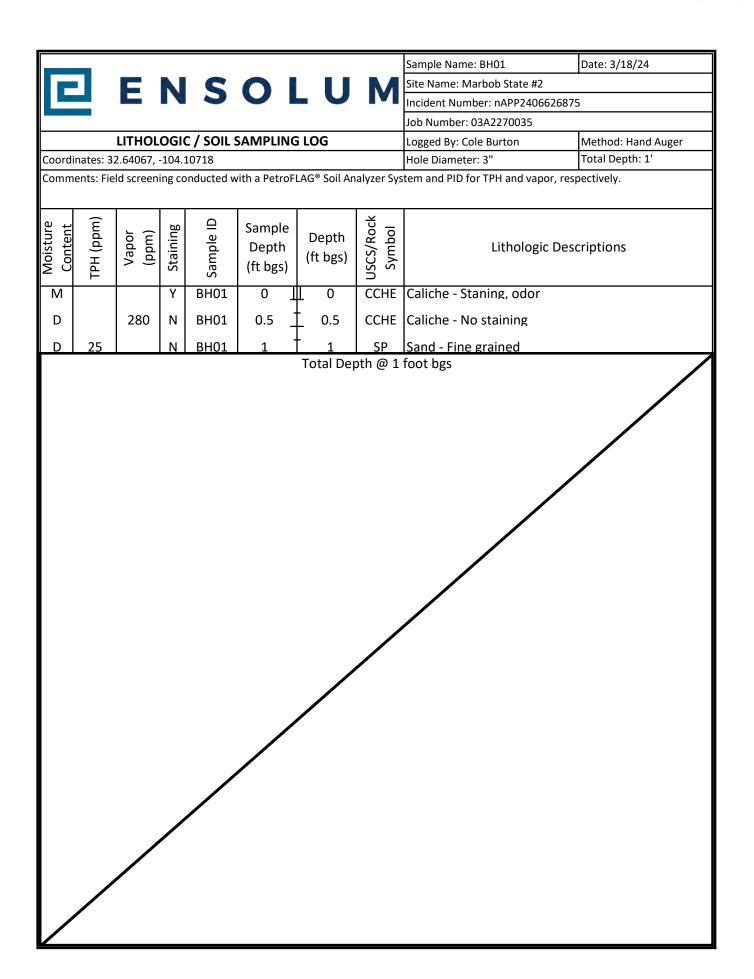
F	OSE POD 1	NUMBER (WE	LL NUMBER)				OSE FILE NU	MRFR(S)			
NO							1	1231			
LI	WELL OW	NER NAME(S)				-	PHONE (OPT)				
GENERAL AND WELL LOCATION	111.	mode.	Bellana	1				,			
LL	WELL OW	NER MAILING	ADDRESS				CITY		STA	TD	ZIP
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	LICENSE N	TUMBER	NAME OF LICENSEI					NAME OF WELL D	RILLING	COMPANY	-
	165	4	John .	DEPTH OF COMPLET				Syeman	, ) ,	11. N	1 .41
	DRILLING	STARTED	DRILLING ENDED	DEPTH OF COMPLET	ED WELL (FT)	BORE HOL	E DEPTH (FT)	DEPTH WATER FI	RST ENC	COUNTERED (FI	D - 1. 10. 10. 10. 10. 10. 10. 10. 10. 10.
	10/21	/13	10/21/13	300	0	30	00	200			
		1						STATIC WATER LE	VEL IN	COMPLETED W	ELL (FT)
Z	COMPLETE	ED WELL IS:	ARTESIAN	DRYHOLE	SHALLOW (UNC	ONFINED)		75			
TIO	DRILLING	FLUID:	AIR	17 MUD 1	ADDITIVES - SPI	CIEV.		13			
CASING INFORMATION			14 ROTARY		_						
FOR	DRILLING		ROTARY	L HAMMER	CABLE TOOL	OTHE	L-SPECIFY:				
Z		I (feet bgl)	BORE HOLE	CASING MATE		CA	SING	CASING	CA	SING WALL	SLOT
ING	FROM	ТО	DIAM	(include each ca			ECTION	INSIDE DIAM.		HICKNESS	SIZE
AS			(inches)	note section	s of screen)	T	YPE	(inches)		(inches)	(inches)
8	0	220	1211	fuc.		Cert	alok	811	DR-17		Blank
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ILL								•			
DR											
7											
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1									29	- 60	
									9	7	
	DEPTH	(feet bgl)	BORE HOLE	LIST AND	NULAR SEAL MA	TERIAL AN	ID T	AMOUNT	U	метно	DOE
AL	FROM	TO	DIAM. (inches)		ACK SIZE-RANGE			(cubic feet)	w	PLACEM	
3. ANNULAR MATERIAL	0	20	12"	3/8 h	1. 11.					77 +	
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RM	E 70	300	12	=18 /	es Grave	21	-	6443	-	grow	ity
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	OSE INTER							WELL RECORD &		(Version 06/08	8/2012)
	NUMBER	CP-	1231		POD NUMBER			MBER 53.5	ittot	-	
100	TTOST	EX	DL	10	75.28E.	36.2-4	4-4			DAOE :	1 000

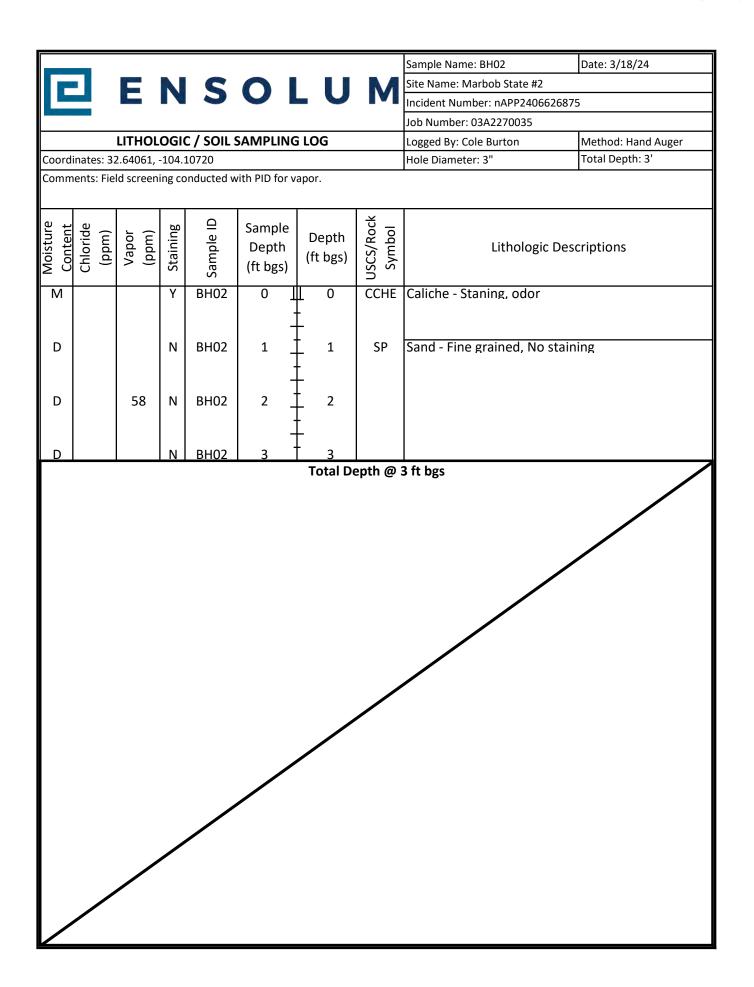
	DEPTH (	feet bgl)		001.0						T		T
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	25	35	10		Bris	s stud				□Y	DN	
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LEST; KIG SUPERVISION	no	ne										
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OR O	SE INTERNAL	LIRE										
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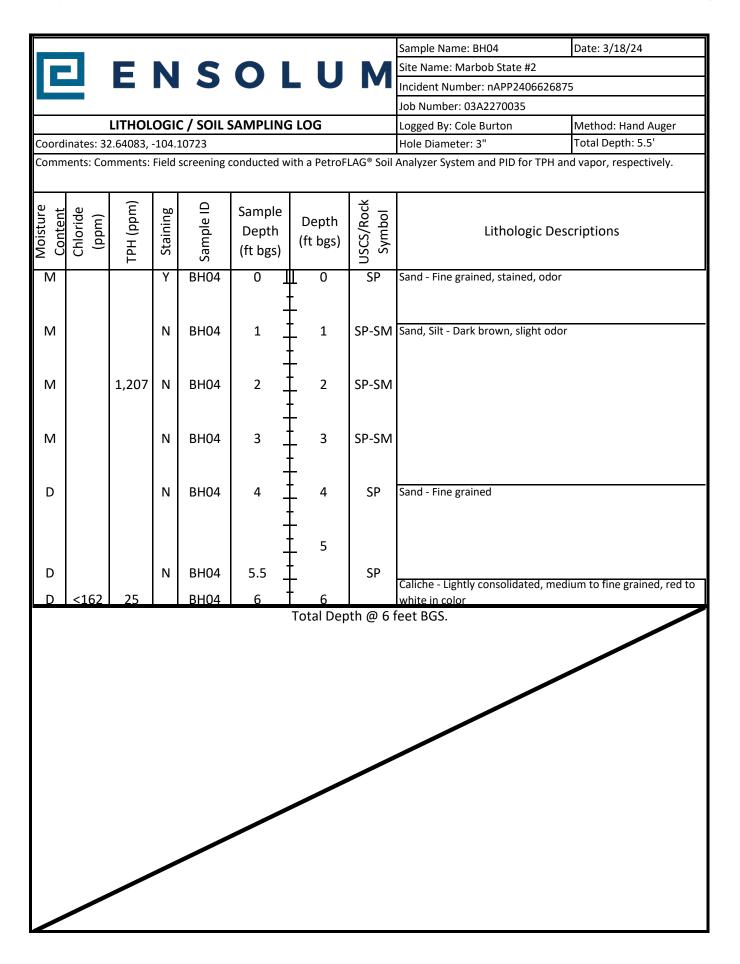
**APPENDIX B** 

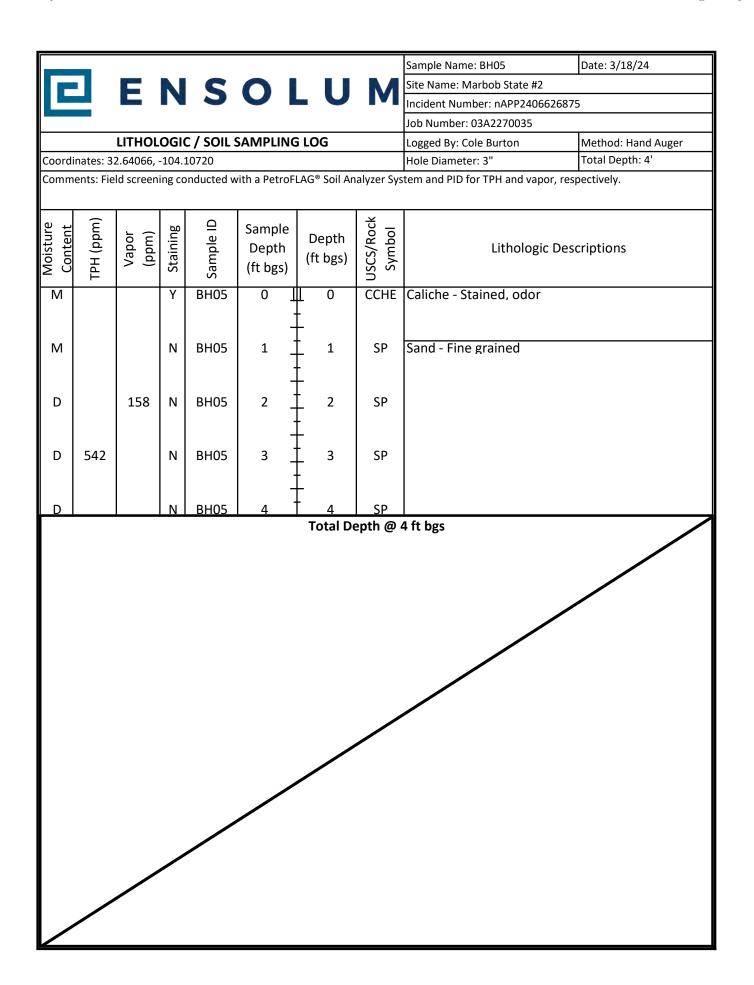
Lithologic Soil Sampling Logs

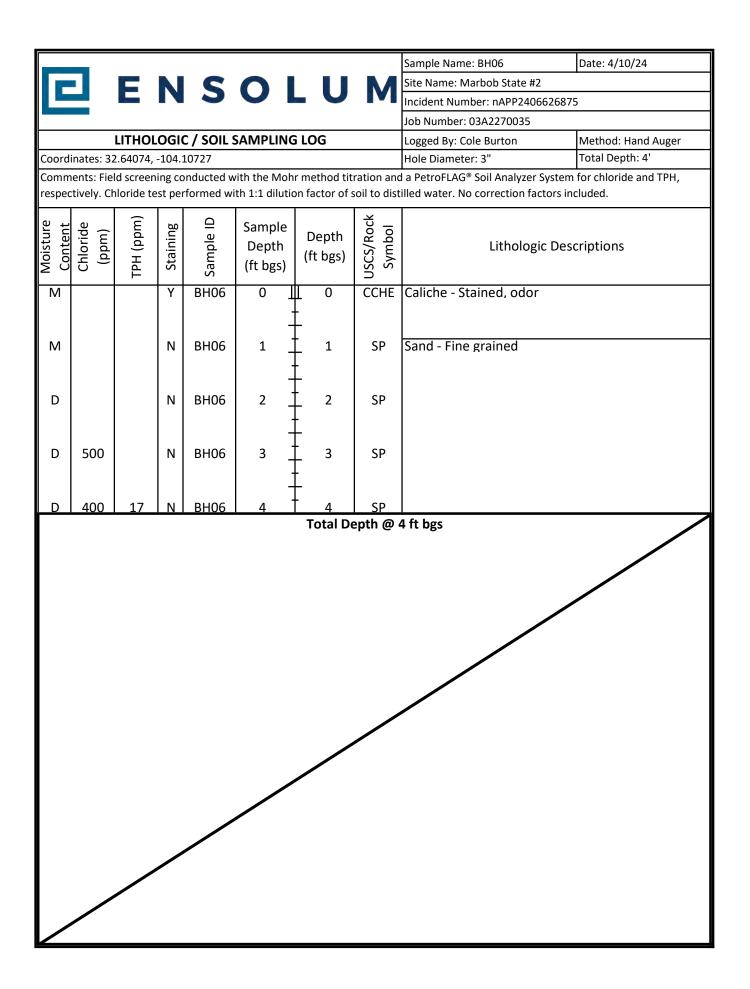


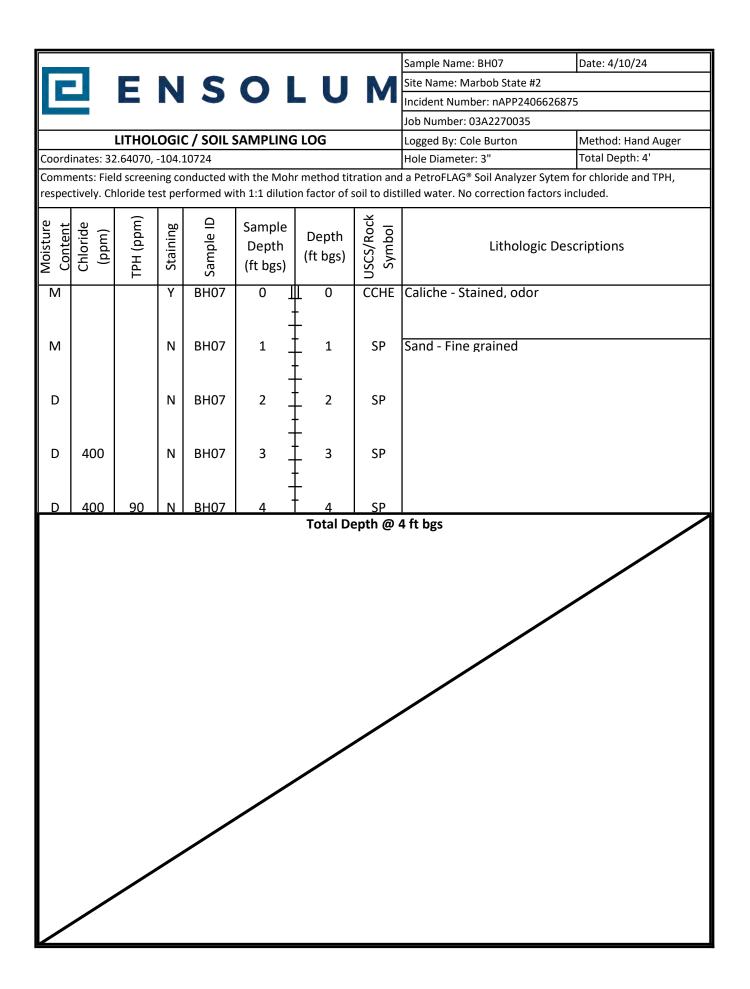


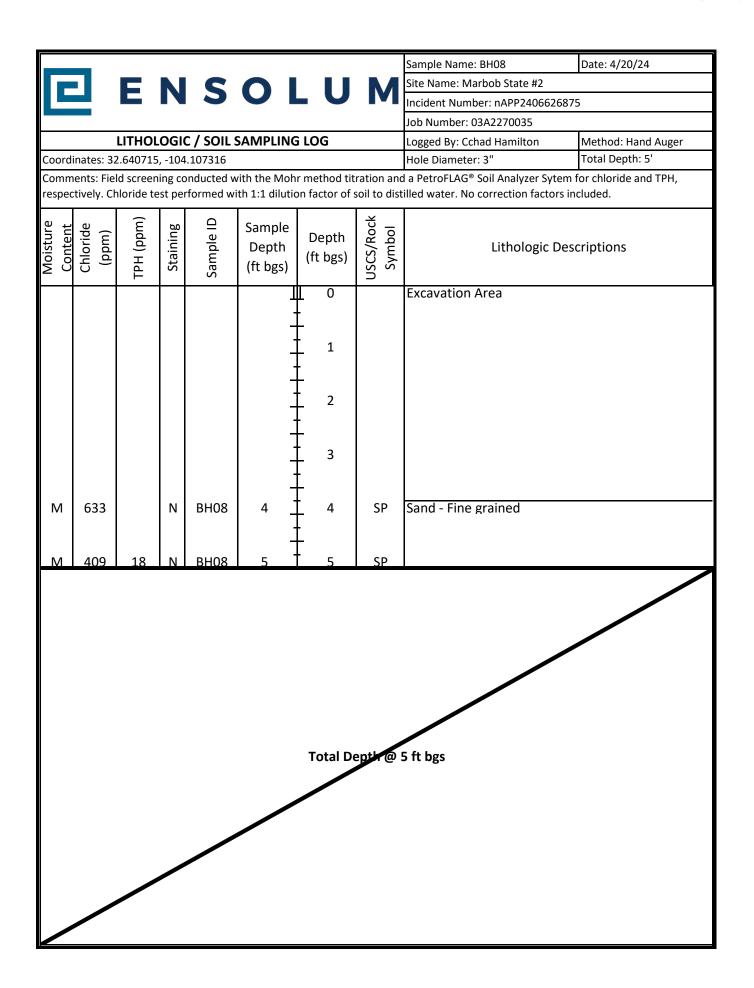
<b>_</b>								ı	1				
-								Sample Name: BH03	Date: 3/18/24				
			N	5	OI		M	Site Name: Marbob State #2					
								Job Number: 03A2270035					
					SAMPLING	LOG		Logged By: Cole Burton Method: Hand Auger					
		2.64057,						Hole Diameter: 3"	Total Depth: 3.5'				
Comm	ents: Fie	ld screeni	ing co	onducted w	rith a PetroF	LAG® Soil An	alyzer Sys	tem and PID for TPH and vapor	r, respectively.				
Moisture Content	ТРН (ррт)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions				
М			Υ	BH03	0 ]	0	SP	Sand - Fine grained, Stair	ned, slight odor				
D			Ν	вноз	1 _ - -	1	SP	Sand - Fine grained					
D		58	N	BH03	2	_ 2	SP						
D	542		N	BH03	2.5	ļ ·	GYP	Gypsum					
	542		IN	впоз	2.5 _	_	GYP	бурѕип					
					]	3							
D			N	BH03	3.5		SP	Sand - Fine grained					
	_												













**APPENDIX C** 

Photographic Log



#### Photographic Log

Matador Production Company
Marbob State #2
Incident Number: nAPP2406626875





Date: 03/05/2024

Photograph 1 Date: 03/05/2024 Photograph 2

Description: Site Signage Description: Initial Release

View: Northwest View: South





Photograph 3 Date: 03/05/2024 Photograph 4 Date: 03/05/2024

Description: Initial Release Description: Initial Release

View: North 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





Date: 08/12/2024

Date: 08/13/2024

Photograph 9 Date: 08/12/2024

**Description: Excavation Activities** 

View: Northwest

Photograph 10

**Description: Excavation Activities** 

View: East





Photograph 11 Date: 08/13/2024

Description: Excavation Activities

View: South

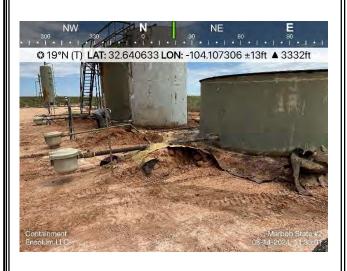
Photograph 12

**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





Date: 08/19/2024

Photograph 23 Date: 08/19/2024

Description: Excavation Activities

View:

Photograph 24

Description: Excavation Activities

View:



#### Photographic Log

Matador Production Company
Marbob State #2
Incident Number: nAPP2406626875





Date: 08/29/2024

Date: 08/29/2024

Photograph 25 Date: 08/29/2024

Description: Excavation Activites

View: Northwest

Photograph 26

Description: Vertical Delineation

View: South





Photograph 27 Date: 08/29/2024

Description: Excavation Activities

View: Northwest

Photograph 28

Description: Excavation Activities

View: West



APPENDIX D

NMSLO Cultural Resources Cover Sheet



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

#### NMSLO Cultural Resources Cover Sheet Exhibit

#### **NMCRIS Activity Number:**

**Exhibit Type** (select one)

(if applicable)

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:** 

Proj		Lan	υ.

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:

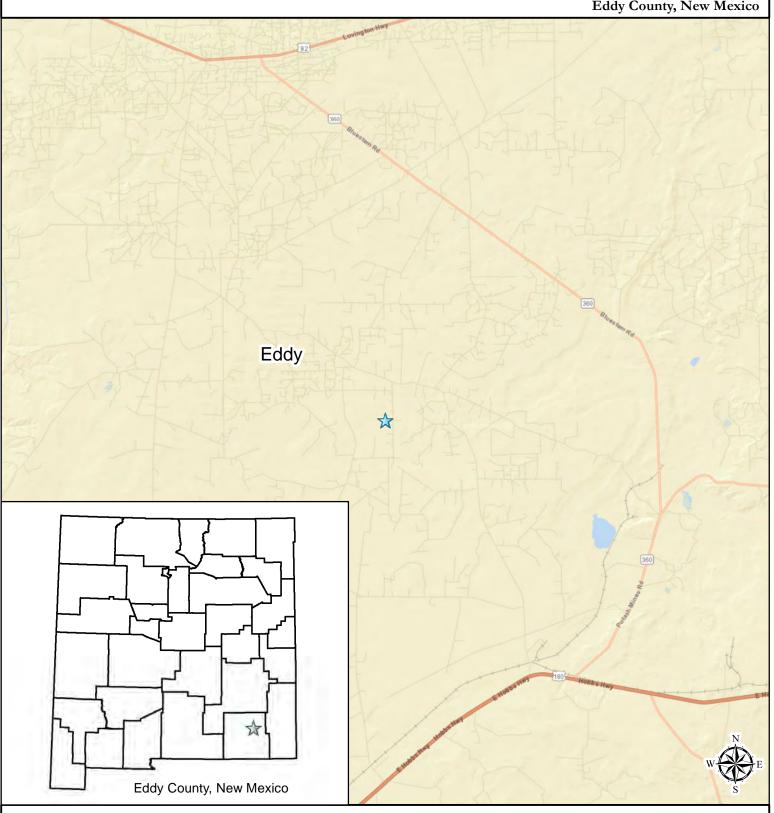
Date Exhibit Routed to Cultural Resources Office:

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

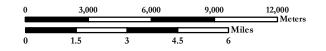
Marbob State #2
Ensolum, LLC
T19S R29E Sec. 19
Illinois Camp NE(1985) Quad. Map
Upper Pecos-Black Drainage
Eddy County, New Mexico



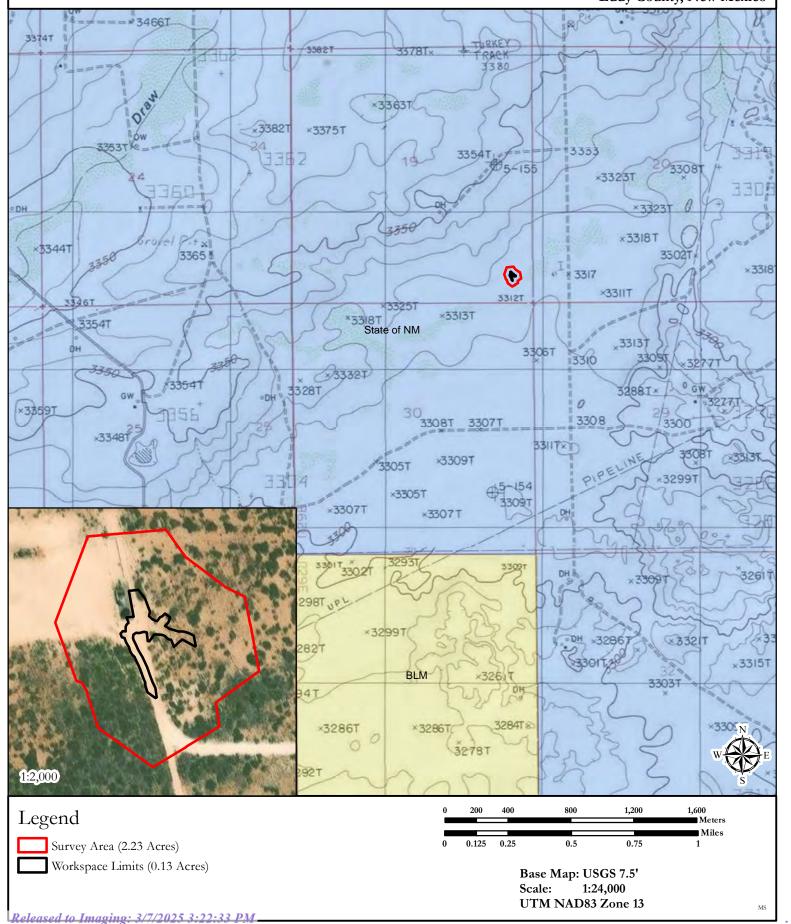
Legend



Project Location



Base Map: USGS 7.5' Scale: 1:180,000 UTM NAD83 Zone 13 Beaver Creek ARCHAEOLOGY Marbob State #2
Ensolum, LLC
T198 R29E Sec. 19
Illinois Camp NE(1985) Quad. Map
Upper Pecos-Black Drainage
Eddy County, New Mexico





# **APPENDIX E**

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

### **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E403187

Job Number: 23052-0001

Received: 3/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/27/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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### Sample Summary

Matador Resources, LLC.	Project Name:	Marbob State #2	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
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.

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	3/27/2024 3:01:58PM

### SS01-0'

#### E403187-01

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2412067
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0500	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
	91.9 %	70-130	03/21/24	03/26/24	
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2412067
ND	20.0	1	03/21/24	03/26/24	
	96.8 %	70-130	03/21/24	03/26/24	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2412101
ND	25.0	1	03/22/24	03/23/24	
ND	50.0	1	03/22/24	03/23/24	
	97.9 %	50-200	03/22/24	03/23/24	
mg/kg	mg/kg	Anal	lyst: DT		Batch: 2412089
385	20.0	1	03/21/24	03/21/24	
	mg/kg ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0250           mg/kg         mg/kg           MD         20.0           96.8 %         mg/kg           ND         25.0           ND         50.0           97.9 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           91.9 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           96.8 %         70-130         1           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           97.9 %         50-200           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: EG           ND         0.0250         1         03/21/24           ND         0.0250         1         03/21/24           ND         0.0250         1         03/21/24           ND         0.0250         1         03/21/24           ND         0.0500         1         03/21/24           ND         0.0250         1         03/21/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/21/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         03/22/24           ND         50.0         1         03/22/24           ND         50.0         1         03/22/24           ND         50.0         1         03/22/24           ND         50.0         0         03/22/24           Mg/kg         mg/kg         Analyst: CT	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: EG           ND         0.0250         1         03/21/24         03/26/24           ND         0.0500         1         03/21/24         03/26/24           ND         0.0250         1         03/21/24         03/26/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/21/24         03/26/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/21/24         03/26/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         03/22/24         03/23/24           ND         50.0         1         03/22/24         03/23/24           ND         50.0         1         03/22/24         03/23/24           mg/kg         mg/kg

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	3/27/2024 3:01:58PM

#### SS02-0'

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		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	03/21/24	03/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	03/21/24	03/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: 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		92.7 %	50-200	03/22/24	03/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2412089
· · · · · · · · · · · · · · · · · · ·	33.8	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

#### SS03-0'

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	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2412067
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
ND	0.0500	1	03/21/24	03/26/24	
ND	0.0250	1	03/21/24	03/26/24	
	92.2 %	70-130	03/21/24	03/26/24	
mg/kg	mg/kg	Ana	Analyst: EG		Batch: 2412067
ND	20.0	1	03/21/24	03/26/24	
	96.4 %	70-130	03/21/24	03/26/24	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2412101
ND	25.0	1	03/22/24	03/23/24	
ND	50.0	1	03/22/24	03/23/24	
	81.0 %	50-200	03/22/24	03/23/24	
mg/kg	mg/kg	Ana	lyst: DT		Batch: 2412089
mg/Kg	mg kg				
	mg/kg ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0250           MD         20.0           96.4 %         mg/kg           MD         25.0           ND         50.0           81.0 %	Result         Limit         Dilution           mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.25%         70-130           mg/kg         mg/kg         Ana           ND         20.0         1           mg/kg         mg/kg         Ana           ND         25.0         1           ND         50.0         1           81.0 %         50-200	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: EG           ND         0.0250         1         03/21/24           ND         0.0250         1         03/21/24           ND         0.0250         1         03/21/24           ND         0.0250         1         03/21/24           ND         0.0500         1         03/21/24           ND         0.0250         1         03/21/24           mg/kg         70-130         03/21/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/21/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         03/22/24           ND         50.0         1         03/22/24           81.0 %         50-200         03/22/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: EG           ND         0.0250         1         03/21/24         03/26/24           ND         0.0500         1         03/21/24         03/26/24           ND         0.0250         1         03/21/24         03/26/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/21/24         03/26/24           mg/kg         mg/kg         Analyst: EG           ND         20.0         1         03/21/24         03/26/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         03/22/24         03/23/24           ND         50.0         1         03/22/24         03/23/24           81.0 %         50-200         03/22/24         03/22/24         03/23/24



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	3/27/2024 3:01:58PM

#### SS04-0'

E403	18'	7-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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		91.5 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: 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		74.2 %	50-200	03/22/24	03/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2412089
Chloride	23.7	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

#### SS05-0' E403187-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: 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	

Nonnaiogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	71.	naryst. EG		Datell. 2412007
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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2412089
Chloride	ND	20.0	1	03/21/24	03/21/24	

# Sample Data

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	3/27/2024 3:01:58PM

#### SS06-0'

	E403187-06					
sult	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
suit	Lillit	Dilution	Trepared	Anaryzeu	Notes	
п	71	A 1 4	EC		D . 1 2412077	

		1 0				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: 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		92.3 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: 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		96.1 %	50-200	03/22/24	03/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2412089
Chloride	ND	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

#### SS07-01 E403187-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2412089
Chloride	ND	20.0	1	03/21/24	03/21/24	·



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	3/27/2024 3:01:58PM

#### BH01-0'

E403187-08						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: 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	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: 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	
Surrogate: n-Nonane		96.2 %	50-200	03/22/24	03/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2412089
Chloride	1300	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

#### BH01-1'

		E403187-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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		91.2 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: n-Nonane		93.1 %	50-200	03/22/24	03/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2412089
Chloride	360	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

#### BH02-0' E403187-10

		E403187-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: 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
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2412089
Chloride	892	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

### BH02-3'

		E403187-11				
	Reporting					
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
p-Xylene	ND	0.0250	1	03/21/24	03/26/24	
o,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		90.2 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2412101
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/24	03/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	03/22/24	03/26/24	
Surrogate: n-Nonane		81.2 %	50-200	03/22/24	03/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2412089
Chloride	186	20.0	1	03/21/24	03/21/24	



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

#### BH03-0'

#### E403187-12

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: 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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: 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
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2412089
Chloride	ND	20.0	1	03/21/24	03/21/24	



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

### BH03-3.5'

		E403187-13				
Reporting						
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2412089
Chloride	234	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

#### BH04-0'

		E403187-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: 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	
o,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	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	530	400	20	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: 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	
Surrogate: n-Nonane		535 %	50-200	03/22/24	03/23/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2412089
Chloride	1440	20.0	1	03/21/24	03/21/24	



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	3/27/2024 3:01:58PM

### BH04-5'

		E403187-15				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: 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	
Surrogate: n-Nonane		93.5 %	50-200	03/22/24	03/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2412089
Chloride	39.1	20.0	1	03/21/24	03/21/24	·



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	3/27/2024 3:01:58PM

#### BH04-5.5 E403187-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		105 %	50-200	03/22/24	03/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2412089
Chloride	69.5	20.0	1	03/21/24	03/22/24	



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	3/27/2024 3:01:58PM

#### BH05-0'

		E403187-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: 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	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	458	200	10	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.0 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: 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	
Surrogate: n-Nonane		726 %	50-200	03/22/24	03/23/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2412089
Chloride	3250	40.0	2	03/21/24	03/22/24	



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	3/27/2024 3:01:58PM

#### BH05-4'

		E403187-18				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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		89.5 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2412067
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	70-130	03/21/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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		95.5 %	50-200	03/22/24	03/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2412089
Chloride	433	20.0	1	03/21/24	03/22/24	



#### **QC Summary Data**

Marbob State #2 Matador Resources, LLC. Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2412067-BLK1) Prepared: 03/21/24 Analyzed: 03/25/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 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 4.99 99.9 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.96 0.0250 5.00 99.3 70-130 4.97 0.0250 5.00 99.4 70-130 Toluene 98.3 o-Xylene 4.92 0.0250 5.00 70-130 9.99 10.0 99.9 70-130 0.0500 p.m-Xvlene 99.4 70-130 14.9 15.0 Total Xylenes 0.0250 8.00 93.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.48 Matrix Spike (2412067-MS1) Source: E403187-02 Prepared: 03/21/24 Analyzed: 03/25/24 5.02 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.98 0.0250 5.00 99.6 Toluene 4.99 0.0250 5.00 ND 99.7 61-130 4.91 ND 98.3 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.0 0.0500 10.0 ND 100 63-131 14.9 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.42 8.00 Matrix Spike Dup (2412067-MSD1) Source: E403187-02 Prepared: 03/21/24 Analyzed: 03/26/24 5.06 0.0250 5.00 ND 54-133 0.756 20 ND 61-133 0.544 5.01 0.0250 5.00 100 20 Ethylbenzene 61-130 5.02 ND 0.581 20

0.0250

0.0250

0.0500

0.0250

4.95

10.1

15.0

7.44

5.00

5.00

10.0

15.0

8.00

100

99.0

101

100

92.9

63-131

63-131

63-131

70-130

0.679

0.554

0.595

20

20

20

ND

ND

ND



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.79

### **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo3/27/20243:01:58PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			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	
Blank (2412067-BLK1)							Prepared: 0	3/21/24 Ana	lyzed: 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: 0	3/21/24 Ana	lyzed: 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: 0	3/21/24 Ana	lyzed: 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: 0	3/21/24 Ana	lyzed: 03/26/24	
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.3	70-130	0.871	20		

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

Dallas 1X, /5240		Project Manager	r: As	niey Gioveng	go				3/2//2024 3:01:38PN			
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO		Analyst: KM				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2412101-BLK1)							Prepared: 0	3/22/24 A	nalyzed: 03/23/24			
Diesel Range Organics (C10-C28)	ND	25.0										
Dil Range Organics (C28-C36)	ND	50.0										
urrogate: n-Nonane	45.3		50.0		90.6	50-200						
LCS (2412101-BS1)							Prepared: 0	3/22/24 A	nalyzed: 03/23/24			
Diesel Range Organics (C10-C28)	299	25.0	250		120	38-132						
urrogate: n-Nonane	45.2		50.0		90.5	50-200						
Matrix Spike (2412101-MS1)				Source:	E403187-0	01	Prepared: 0	3/22/24 A	nalyzed: 03/23/24			
Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	38-132						
urrogate: n-Nonane	46.8		50.0		93.6	50-200						
Matrix Spike Dup (2412101-MSD1)				Source:	E403187-0	01	Prepared: 0	3/22/24 A	nalyzed: 03/23/24			
Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132	0.765	20				
Gurrogate: n-Nonane	45.7		50.0		91.3	50-200						



249

285

282

LCS (2412089-BS1)

Matrix Spike (2412089-MS1)

Matrix Spike Dup (2412089-MSD1)

Chloride

Chloride

Chloride

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

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

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

20

90-110

80-120

80-120

1.06

99.8

99.6

98.4

Source: E403187-03

Source: E403187-03

36.5

36.5

#### **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Marbob State #2 3052-0001 Ashley Gioveng					<b>Reported:</b> 3/27/2024 3:01:58PM
		Anions	by EPA	300.0/9056 <i>A</i>	<b>\</b>				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412089-BLK1)							Prepared: 0	3/21/24	Analyzed: 03/21/24
Chloride	ND	20.0							

250

250

250

20.0

20.0

20.0

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.



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1			by (
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1			12/
			OCD: 12/5/2024 11:43:25
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Attention: Ensolum LLC	ment: I	Matador Prod	duction C	Company		Bill To	)			La	h Us	se Or	IV				TA	T	EPA PI	rogran
Address: 3122 National Parks Hwy   City, State, Zip: Carlsbad NM, 88220   Phone: 575-988-0055   Email: agiovengo@ensolum.com   Phone: 575-988-0055   Phon								Lab V	VO#	_				ber	1D	2D				SDW
Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Report due by:  11:13 3/18/2024 Soil 1 SS01-0' 9:51 3/18/2024 Soil 1 SS03-0' 9:57 3/18/2024 Soil 1 SS05-0' 9:57 3/18/2024 Soil 1 SS05-0' 9:59 3/18/2024 Soil 1 SS06-0' 9:50 3/18/2024 Soil 1 SS06-0'	roject [	Manager: As	hley Giov	vengo		Address: on file		E-2	30,	m								X		
Email: agiovengo@ensolum.com   Email: agiovengo@ensolum.com								EH03	14	4		Analy	sis ar	nd Metho	d					RCF
11:13 3/18/2024 Soil 1 SS01 - 0'				88220		Phone: 575-988-0055		1	y o y											
11:13 3/18/2024 Soil 1 SS01 - 0'				A 54.		Email: agiovengo@ensol	um.com		O.K.									Secret see		
11:13 3/18/2024 Soil 1 SS01 - 0'			nsolum.c	com				1 8	OKO,	121	09	01	0.00		Σ		×	NM CO	UT AZ	TX
11:13 3/18/2024 Soil 1 SS01 - 0'		Tue by:					Link	- 3	NO.	by 80	y 82	s 603	de 3	TPH	l N			×		Ш
9:51 3/18/2024 Soil 1 SS02 - 0'	Sampled	and characters of the	Matrix		Sample ID		100	r	8015	ВТЕХ	VOCB	Metal	Chlori	ТСЕД	BGDC		GDO		Remarks	4
9:52 3/18/2024 Soil 1 SS03 - 0'	11:13	3/18/2024	Soil	1		SS01 - 0'	1								x					
9:56 3/18/2024 Soil 1 SS04 - 0'	9:51	3/18/2024	Soil	1		SS02 - 0'	2								х					
9:57 3/18/2024 Soil 1 SS05 - 0'	9:52	3/18/2024	Soil	1		SS03 - 0'	3								х					
9:59 3/18/2024 Soil 1 SS06 - 0'	9:56	3/18/2024	Soil	1		SS04 - 0'	4								х					
9:59 3/18/2024 Soil 1 SS06 - 0'	9:57	3/18/2024	Soil	1		SS05 - 0'	5								х					
11:30 3/18/2024 Soil 1 BH01-0'	9:59	3/18/2024	Soil	1		SS06 - 0'	1								х					
11:30 3/18/2024 Soil 1 BH01 - 0'	10:03	3/18/2024	Soil	1		SS07 - 0'	1								х					
13:18 3/18/2024 Soil 1 BH01 - 1' <b>q x x</b> 11:45 3/18/2024 Coil 4 BH02 - 0'	11:30	3/18/2024	Soil	1		BH01 - 0'									x					
11:45 3/18/2024 Soil 1 BH02 - 0'	13:18	3/18/2024	Soil	1		BH01 - 1'									x					
	11:45	3/18/2024	Soil	1		BH02 - 0'	15				[-]				x					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com	13:18 11:45	3/18/2024 3/18/2024	Soil Soil	1 1 1	ourton@ensolu	BH01 - 1' BH02 - 0'	8 9	ensolu	m.co	om, i	iestr	ella@	Pens	olum.co	x					_
	ite or time	of collection is co	onsidered fr	aud and ma	y be grounds for lega							receive	ed packe	ed in ice at ar					equent days.	
ate or time of collection is considered fraud and may be grounds for legal action.  Sampled by:  received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	h	A. An	h	3-	19-24 7:	30 Michille Gu	Jale 3-19:	24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	730	)	Rece	eived	on ice:	- 100			ly		
elinquished by: (Signature)  Date  3-19-21 7:30 Received by: (Signature)  Date  3-19-21 7:30 Received by: (Signature)  Received by: (Signature)  Date  3-19-21 7:30 Received on ice: (Y) N		ed by: (Signatur	e) /	Date	19-24 16	Received by: (Signature)	Date	.	ime	700		T1			T2			T3		



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Project: Marbob State #2 Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Report due by:  Time Sampled Date Sampled Matrix No. of Containers Sample ID  13:16 3/18/2024 Soil 1  BH02 - 3'  BH03 - 0'	e		O/ORO by		B		nd Meth	1D od	2D	3D	Standard x	CWA	SDWA
Address: 3122 National Parks Hwy  City, State, Zip: Carlsbad NM, 88220  Phone: 575-988-0055  Email: agiovengo@ensolum.com  Report due by:  Time Sampled Date Sampled Matrix No. of Containers Sample ID  13:16 3/18/2024 Soil 1  BH02 - 3'	8-0055 go@ensolum.com		D/ORO by		1.			od			X		DCD A
City, State, Zip: Carlsbad NM, 88220  Phone: 575-988-0055  Email: agiovengo@ensolum.com  Report due by:  Time Sampled Date Sampled Matrix No. of Containers Sample ID  13:16 3/18/2024 Soil 1  BH02 - 3'	8-0055 go@ensolum.com		)/DRO/ORO by	1	Ana	lysis a	nd Meth	od					DCDA
Phone: 575-988-0055   Email: agiovenge   Email: agiovenge	go@ensolum.com		)/DRO/ORO by	1									NCKA
Email: agiovengo@ensolum.com   Report due by:   Time   Date Sampled   Matrix   No. of   Containers   Sample ID     BH02 - 3'	Lab		)/DRO/ORO								المستعا		
Report due by:   Time   Date Sampled   Matrix   No. of   Containers   Sample   ID			/DRO/									State	
Time Sampled         Date Sampled         Matrix         No. of Containers         Sample ID           13:16         3/18/2024         Soil         1         BH02 - 3'			9	NIZ	0	0.0		Σ		×	NM CO	UT AZ	TX
Sampled Date Sampled Matrix Containers Sample ID  13:16 3/18/2024 Soil 1 BH02 - 3'			2	y 8021	601	e 30	표	0			×		
11.52 2/19/2024			TPH GR 8015	BTEX by 8021 VOC by 8260	Metals 6010	Chloride 300.0	тсед трн	верос		CDOC		Remarks	i
11:52 3/18/2024 Soil 1 BH03 - 0'	l l							х					
tt	b							х					
14:03 3/18/2024 Soil 1 BH03 - 3.5'	B							х					
12:16 3/18/2024 Soil 1 BH04 - 0'	ly							х					
14:11 3/18/2024 Soil 1 BH04 - 5'	15							х					
14:15 3/18/2024 Soil 1 BH04 - 5.5	lb.							х			Do not run unle	ess BH04 - 5' is > 1	LOO TPH or 600
12:26 3/18/2024 Soil 1 BH05 - 0'	13							х					
14:06 3/18/2024 Soil 1 BH05 - 4'	18							х					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@	@ensolum.com, chamilton@e	ensolu	ım.coı	m, ies	rella	@ens	olum.c	om					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering widate or time of collection is considered fraud and may be grounds for legal action.	ith or intentionally mislabelling the samp	ole locati	ion,		1000						ived on ice the day s than 6 °C on sub		led or
Relinquished by: (Signature)  Date  Time  Received by: (Signature)  Relinquished by: (Signature)  Date  Date  Time  Received by: (Signature)	(Signatura) Date 3.195	24	Time 57	20	Re	ceive	d on ice:	. /	ab Us	se Only	И		
Middle Clerk 31924 [led Infrent	M.S. 3.19.	.24	170	00	T1			<u>T2</u>			<u>T3</u>		
Indrew 11880 3.19.24 2400	Juise 03.20	-24	05	3:51			np °C	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements	Containe	er Type	· p - pl	acc n -	nolu	Inlact:		abor al		VOA			



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envirotech Inc.

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

#### **Envirotech Analytical Laboratory**

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)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	currer. <u>c</u>	<u> </u>		
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic			,		Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes, v	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, <u> </u>	temperature. 4	<u>c</u>				
Sample C	container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
	trip blank (TB) included for VOC analyses?	•	NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	iers conected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	Illiation.	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		No				
Sample P	reservation_						
21. Does t	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multiphase	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
	act Laboratory		No				
	amples required to get sent to a subcontract laborator subcontract laboratory specified by the client and if	-	NA	C144 I -1-	3.1.4		
		so who?	NA	Subcontract Lab	): NA		
Client In	<u>istruction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E403188

Job Number: 23052-0001

Received: 3/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/27/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

**Southern New Mexico Area** 

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Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Γ	Matador Resources, LLC.	Project Name:	Marbob State #2	Donoutodi
١	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	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.



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	3/27/2024 3:00:33PM

#### SS08-0'

#### E403188-01

		L+05100 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: IY		Batch: 2412080
Chloride	23.2	20.0	1	03/21/24	03/21/24	



## **QC Summary Data**

Marbob State #2 Matador Resources, LLC. Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2412067-BLK1) Prepared: 03/21/24 Analyzed: 03/25/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 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 4.99 99.9 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.96 0.0250 5.00 99.3 70-130 4.97 0.0250 5.00 99.4 70-130 Toluene 98.3 o-Xylene 4.92 0.0250 5.00 70-130 9.99 10.0 99.9 70-130 0.0500 p.m-Xvlene 99.4 70-130 14.9 15.0 Total Xylenes 0.0250 8.00 93.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.48 Matrix Spike (2412067-MS1) Source: E403187-02 Prepared: 03/21/24 Analyzed: 03/25/24 5.02 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.98 0.0250 5.00 99.6 Toluene 4.99 0.0250 5.00 ND 99.7 61-130 4.91 ND 98.3 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.0 0.0500 10.0 ND 100 63-131 14.9 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.42 8.00

Source: E403187-02

100

100

99.0

101

100

92.9

54-133

61-133

61-130

63-131

63-131

63-131

70-130

0.756

0.544

0.581

0.679

0.554

0.595

ND

ND

ND

ND

ND

ND



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

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20

Matrix Spike Dup (2412067-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

5.06

5.01

5.02

4.95

10.1

15.0

7.44

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

Gasoline Range Organics (C6-C10)

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo3/27/20243:00:33PM

Nonhalogenated Organics by EPA 8015D - GRO									Analyst: EG	
Analyte	Result	Reporting Limit mg/kg	Level	Source Result mg/kg	Rec	Rec Limits	its RPD	RPD Limit	Notes	
	mg/kg				%	%		%		
Blank (2412067-BLK1)							Prepared: 0	3/21/24 Anal	yzed: 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: 0	3/21/24 Anal	yzed: 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: 0	3/21/24 Anal	yzed: 03/26/24	

Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.2	70-130			
Matrix Spike Dup (2412067-MSD2)				Source:	E403187-	02	Prepared: 03	3/21/24 Ana	alyzed: 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 70		8.00		97.4	70-130			

ND

70-130

50.0

20.0

# **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

Dallas 1X, /5240		Project Manage	r: As	niey Gioveng	go				3/2//2024 3:00:33PF
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412072-BLK1)							Prepared: 0	3/21/24 A1	nalyzed: 03/21/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	39.1		50.0		78.1	50-200			
LCS (2412072-BS1)							Prepared: 0	3/21/24 Aı	nalyzed: 03/21/24
Diesel Range Organics (C10-C28)	248	25.0	250		99.3	38-132			
urrogate: n-Nonane	39.3		50.0		78.7	50-200			
Matrix Spike (2412072-MS1)				Source:	E403189-0	01	Prepared: 0	3/21/24 A1	nalyzed: 03/21/24
Diesel Range Organics (C10-C28)	446	125	250	214	92.9	38-132			
urrogate: n-Nonane	38.3		50.0		76.6	50-200			
Matrix Spike Dup (2412072-MSD1)				Source:	E403189-0	01	Prepared: 0	3/21/24 A1	nalyzed: 03/21/24
Diesel Range Organics (C10-C28)	434	125	250	214	88.0	38-132	2.76	20	
'urrogate: n-Nonane	37.7		50.0		75.5	50-200			

Matrix Spike Dup (2412080-MSD1)

Chloride

369

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Marbob State #2 23052-0001 Ashley Giovengo					<b>Reported:</b> 3/27/2024 3:00:33PM
		Anions	by EPA	300.0/9056A					Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
DI 1 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412080-BLK1)							Prepared: 0.	3/21/24 At	nalyzed: 03/21/24
Chloride	ND	20.0							
LCS (2412080-BS1)							Prepared: 03	3/21/24 Ar	nalyzed: 03/21/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2412080-MS1)				Source: 1	E403198-	08	Prepared: 0	3/21/24 Ar	nalyzed: 03/21/24
Chloride	368	20.0	250	113	102	80-120			

250

20.0

Source: E403198-08

102

80-120

0.299

113

#### 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.



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

20

## **Definitions and Notes**

ſ	Matador Resources, LLC.	Project Name:	Marbob State #2	
١	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	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.



Client: N	Matador Prod	luction C	ompany			Bill To				La	b Us	e On	ly	1 7 78			TA	T	EPA P	rogran
	Marbob Stat				At	tention: Ensolum LLC		Lab	WO#			Job I	Num		1D	2D	3D	Standard	CWA	SDW
	/lanager: As				Ac	dress: on file		E	WO#	88		230	SI	-000				×		
	3122 Natio					y, State, Zip:					I	Analy	sis an	d Metho	d					RCF
	e, Zip: Carls		88220			one: 575-988-0055	4,		yd C									\		
	575-988-005				En	nail: agiovengo@ensolum.cor	n		ORC										State	
	giovengo@e	nsolum.c	om						JRO/	121	09	0	0.00		Σ	1 1	×	NM CO	UT AZ	TX
Report d	ue by:								RO/I	37 80	y 82	601	de 3(	TPH I		1		×		4
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	тсед трн	верос		GDOC		Remarks	
10:05	3/18/2024	Soil	1			SS08 - 0'									x					
															L					
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										- 1										
													[4]							
						, agiovengo@ensolum.com,				om, i	estre	ella@	Pens	olum.co	m					
ite or time	of collection is co	onsidered fr		ty of this sample. I ar y be grounds for lega		that tampering with or intentionally misl Sampled by:	abelling the samp	le loca	tion,									ceived on ice the day ess than 6°C on subs		oled or
1	ed by: (Signatur	no		19-24 7:	30	Received by: (Signature)	3-19-	14		187	5	Rece	eived	on ice:			se Onl	У		
Mic	ed by: (Signature	at .	Date	924 Time	21	Received by: (Signature)  Received by: (Signature)	3.19			00		T1			<u>T2</u>			<u></u>		
Indrei	/ 11			19.24 20	100	Received by: (signature)	Oy) O	Щ	Time	1:5		AVG	Tem	p °C	4					
V	rix: <b>S</b> - Soil, <b>Sd</b> - So		des A Anu	2 01	100		Containe	т	750	1	-	-1. /-	1	-987-401			1101			



enviroteche analysis of the above

envirotech Inc.

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

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

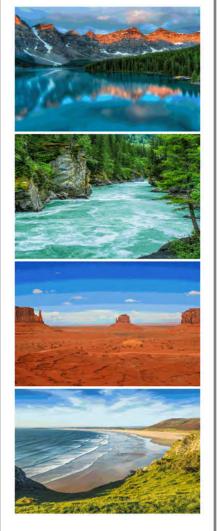
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

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)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes		<u>Journer</u>		
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic			,		Comments	s/Resolution
Sample 1	<u> [urn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	Cooler						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, ,	temperature. 4	<u>c</u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	1	Yes				
	appropriate volume/weight or number of sample contains		Yes				
Field Lal	· · · · · · · · · · · · · · · · · · ·	iers conecteur	105				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	pate/Time Collected?		Yes	l			
C	ollectors name?		No				
Sample I	<u>Preservation</u>						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	<b>v</b> ?	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	· NA		
				Successificate Euro	. 1111		
Chent II	<u>nstruction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E403189

Job Number: 23052-0001

Received: 3/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/25/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Γ	Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Keporteu:	
١	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.



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	3/25/2024 1:51:37PM

#### SS09-0'

#### E403189-01

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: BA		Batch: 2412078
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/21/24	03/22/24	
Gasoline Range Organics (C6-C10)  Surrogate: 1-Chloro-4-fluorobenzene-FID	ND	20.0 87.7 %	70-130	03/21/24	03/22/24	
	ND mg/kg		1 70-130 Analyst	03/21/24		Batch: 2412072
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.7 %		03/21/24		Batch: 2412072
Surrogate: 1-Chloro-4-fluorobenzene-FID  Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	87.7 % mg/kg	Analyst	03/21/24 :: KM	03/22/24	Batch: 2412072
Surrogate: 1-Chloro-4-fluorobenzene-FID  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)	mg/kg 214	87.7 % mg/kg 125	Analyst	03/21/24 :: KM 03/21/24	03/22/24	Batch: 2412072
Surrogate: 1-Chloro-4-fluorobenzene-FID  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)  Oil Range Organics (C28-C36)	mg/kg 214	87.7 % mg/kg 125 250	Analyst 5 5	03/21/24 :: KM 03/21/24 03/21/24 03/21/24	03/22/24 03/21/24 03/21/24	Batch: 2412072  Batch: 2412080

# **QC Summary Data**

bob State #2 Reported:
52-0001
ley Giovengo 3/25/2024 1:51:37PM
5

Dallas TX, 75240		Project Number: Project Manager:		3052-0001 shley Gioveng				3/2	:5/2024 1:51:37PM
Dallas IA, /3240		, c						5/2	.572024 1.51.57110
		Volatile O	rganics b		Analyst: BA				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412078-BLK1)							Prepared: 03	3/21/24 Anal	yzed: 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	3/21/24 Anal	yzed: 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	3/21/24 Anal	yzed: 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	3/21/24 Anal	yzed: 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			
•									



Surrogate: 1-Chloro-4-fluorobenzene-FID

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo3/25/20241:51:37PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			3/2	25/2024 1:51:37PM
	Non		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
Blank (2412078-BLK1)							Prepared: 0	3/21/24 Ana	lyzed: 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: 0	3/21/24 Ana	lyzed: 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: 0	3/21/24 Ana	lyzed: 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: 0	3/21/24 Ana	lyzed: 03/22/24
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.1	70-130	0.761	20	

8.00

7.36

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

Dallas 1A, /3240		Project Manage	r: As	mey Gloveng	30			3	723/2024 1.31.37FN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412072-BLK1)							Prepared: 0	3/21/24 Ana	alyzed: 03/21/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.1		50.0		78.1	50-200			
LCS (2412072-BS1)							Prepared: 0	3/21/24 Ana	alyzed: 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: 0	3/21/24 Ana	alyzed: 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: 0	3/21/24 Ana	alyzed: 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**

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

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limi %	
Blank (2412080-BLK1)							Prepared: 0	3/21/24	Analyzed: 03/21/24
Chloride	ND	20.0							
LCS (2412080-BS1)							Prepared: 0	3/21/24	Analyzed: 03/21/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2412080-MS1)				Source:	E403198-	08	Prepared: 0	3/21/24	Analyzed: 03/21/24
Chloride	368	20.0	250	113	102	80-120			
Matrix Spike Dup (2412080-MSD1)				Source:	E403198-	08	Prepared: 0	3/21/24	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**

I	Matador Resources, LLC.	Project Name:	Marbob State #2	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	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.



Client: I	Matador Pro	duction C	ompany			Bill To				La	ab U	se Or	nly					TA	AT	EPA P	rogram
-	Marbob Sta				Att	ention: Ensolum LLC		Lat	WO#	#		Job	Num	ber		1D	2D	3D	Standard	CWA	SDWA
	Manager: As				Add	dress: on file		E	103	189		23	05)	-cu	2				x		
Address	: 3122 Natio	nal Parks	Hwy		City	, State, Zip:						Analy	sis a	nd Me	ethod	d					RCRA
City, Sta	te, Zip: Carls	bad NM,	88220		Pho	one: 575-988-0055			by			1									
Phone:	575-988-005	5			Em	ail: agiovengo@ensolum.com			ORO		1 8									State	
Email: a	giovengo@e	nsolum.	om					1	30/0	1		1	0.0			ΝN			NM CO	UT AZ	TX
Report o	lue by:								JQ/O	8021	8260	010	300	x		1		×	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	втех by	VOC by 8260	Metals 6010	Chloride 300.0	тсед трн		верос		GDOC		Remarks	
10:07	3/18/2024	Soil	1			SS09 - 0'										х					
							1														
							10														
					<del>y</del>																
Addition	al Instructio	ns: Plea	se CC: cl	 burton@enso	lum.com,	agiovengo@ensolum.com, c	hamilton@	enso	lum.c	om,	iestr	ella@	ens	olum	.con	n					
A transfer of the	And the second second			ity of this sample.		nat tampering with or intentionally misla Sampled by:	belling the samp	ole loc	ation,										ceived on ice the day		ed or
S ALL SALES	ed by: (Signatu		Date			Received by: (Signature) Willle Club	3-19-	24	Time	130	)	Rece	eived	on ic	e:		ab Us	se On	ly		
Mic		eyh	Date 3-			Received by: (Signature)	Date	1.20	Time	ò		T1				T2			<u>T3</u>		
Relinquish	ed by: (Signatu	re)	Date 3	./9.24 2	400	Received by: (Signature)	Date 103:20	24	Time	151		AVG	Tem	np °C_	4						
	trix: S - Soil, Sd - S	olid, <b>S</b> g - Slu				//	Containe	r Typ	oe: g - 1	glass,						er gla	ass, v	- VOA	\		
Note: Sam	ples are discard	led 30 days	after resu	Its are reported	unless othe	r arrangements are made. Hazardo														analysis of t	he above
						this COC. The liability of the laborat															



enviroteches enviroteches

Printed: 3/20/2024 12:34:41PM

## **Envirotech Analytical Laboratory**

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:	E403189
Phone:	(972) 371-5200	Date Logged In:	03/20/24	12:32	Logged In By:	Jessica Liesse
Email:	agiovngo@ensolum.com	Due Date:	03/26/24	17:00 (4 day TAT)		
GL :						
	f Custody (COC)		37			
	the sample ID match the COC? The number of samples per sampling site location mate	ch the COC	Yes			
	samples dropped off by client or carrier?	in the COC	Yes	o : o :		
	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes Yes	Carrier: Courier		
	all samples received within holding time?	ica anaryses:	Yes			
J. WOIC	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		103		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes <u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	•					
	e field sample labels filled out with the minimum infor	mation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pro-	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved m	etals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphas		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laborator	y?	No			
	a subcontract laboratory specified by the client and if		NA	Subcontract Lab: NA		
Client I	nstruction .					
<u>enene i</u>	noti detion					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Matador Resources, LLC.	Project Name:	Marbob State #2	Donoutodi
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/19/24 11:24

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.



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	4/19/2024 11:24:20AM

## SS05A -0' E404108-01

		E404100-01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dill	ution	Ттерагец	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		108 %	70-130		04/12/24	04/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		04/12/24	04/16/24	
Surrogate: Toluene-d8		108 %	70-130		04/12/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2415087
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/12/24	04/16/24	
Surrogate: Bromofluorobenzene		108 %	70-130		04/12/24	04/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		04/12/24	04/16/24	
Surrogate: Toluene-d8		108 %	70-130		04/12/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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		119 %	50-200		04/17/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2416076
Chloride	ND	20.0		1	04/17/24	04/18/24	



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	4/19/2024 11:24:20AM

## SS07A -0' E404108-02

1.	Reporting					
can I t	Limit	Dil	lution	Dramarad	Analyzad	Notes
suit	Limit	Dil	lution	Frepared	Anatyzeu	Notes
/kg	mg/kg		Analyst:	RKS		Batch: 2415087
D	0.0250		1	04/12/24	04/17/24	
D	0.0250		1	04/12/24	04/17/24	
D	0.0250		1	04/12/24	04/17/24	
D	0.0250		1	04/12/24	04/17/24	
D	0.0500		1	04/12/24	04/17/24	
D	0.0250		1	04/12/24	04/17/24	
	106 %	70-130		04/12/24	04/17/24	
	97.6 %	70-130		04/12/24	04/17/24	
	96.1 %	70-130		04/12/24	04/17/24	
/kg	mg/kg		Analyst:	RKS		Batch: 2415087
D	20.0		1	04/12/24	04/17/24	
	106 %	70-130		04/12/24	04/17/24	
	97.6 %	70-130		04/12/24	04/17/24	
	96.1 %	70-130		04/12/24	04/17/24	
/kg	mg/kg		Analyst:	KM		Batch: 2416070
D	25.0		1	04/17/24	04/18/24	
D	50.0		1	04/17/24	04/18/24	
	116 %	50-200		04/17/24	04/18/24	
/kg	mg/kg		Analyst:	DT		Batch: 2416076
D	20.0		1	04/17/24	04/18/24	
	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	/kg mg/kg D 0.0250 D 0.0250 D 0.0250 D 0.0250 D 0.0500 D 0.0500 D 0.0250  106 % 97.6 % 96.1 %  /kg mg/kg D 20.0  106 % 97.6 % 96.1 %  /kg mg/kg D 25.0 D 50.0  116 %	/kg         mg/kg           D         0.0250           D         0.0250           D         0.0250           D         0.0500           D         0.0500           D         0.0250           106 % 70-130           97.6 % 70-130         70-130           96.1 % 70-130         97.6 % 70-130           96.1 % 70-130         96.1 % 70-130           96 mg/kg         0           D         25.0           D         50.0           116 % 50-200           /kg         mg/kg	/kg         mg/kg         Analyst:           D         0.0250         1           D         0.0250         1           D         0.0250         1           D         0.0250         1           D         0.0500         1           D         0.0250         1           D         0.0250         1           IO6%         70-130         70-130           96.1%         70-130         70-130           97.6%         70-130         96.1%         70-130           96.1%         70-130         96.1%         70-130           7kg         mg/kg         Analyst:           D         25.0         1           D         50.0         1           116%         50-200           7kg         mg/kg         Analyst:	Analyst: RKS  D 0.0250 1 04/12/24  D 0.0500 1 04/12/24  D 0.0250 1 04/12/24  D 0.0250 1 04/12/24  Analyst: RKS  D 70-130 04/12/24  96.1 % 70-130 04/12/24  96.1 % 70-130 04/12/24  97.6 % 70-130 04/12/24  96.1 % 70-130 04/12/24  97.6 % 70-130 04/12/24  98.1 % 70-130 04/12/24  99.1 % 70-130 04/12/24  99.1 % 70-130 04/12/24  91.6 % 70-130 04/12/24  92.0 1 04/12/24  92.0 1 04/12/24  93.1 % 70-130 04/12/24  94.1 % 70-130 04/12/24  95.0 % 70-130 04/12/24  96.1 % 70-130 04/12/24  96.1 % 70-130 04/12/24  96.1 % 70-130 04/12/24  96.1 % 70-130 04/12/24  96.1 % 70-130 04/12/24  96.1 % 70-130 04/12/24  96.1 % 70-130 04/12/24	Analyst: RKS  D 0.0250



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	4/19/2024 11:24:20AM

### BH06 -0' E404108-03

		2.0.1100 00				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2415087
Benzene	ND	0.0250	1	04/12/24	04/17/24	Batch: 2 113007
Ethylbenzene	0.285	0.0250	1	04/12/24	04/17/24	
Toluene	0.332	0.0250	1	04/12/24	04/17/24	
o-Xylene	1.26	0.0250	1	04/12/24	04/17/24	
p,m-Xylene	3.48	0.0500	1	04/12/24	04/17/24	
Total Xylenes	4.73	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2415087
Gasoline Range Organics (C6-C10)	82.2	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2416070
Diesel Range Organics (C10-C28)	13500	125	5	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	5680	250	5	04/17/24	04/18/24	
Surrogate: n-Nonane		166 %	50-200	04/17/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2416076
Chloride	2800	40.0	2	04/17/24	04/18/24	

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	4/19/2024 11:24:20AM

### BH06 -2' E404108-04

		E404100-04					
Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilu	шоп	Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2415087
Benzene	ND	0.0250	1	1	04/12/24	04/17/24	
Ethylbenzene	ND	0.0250	1	1	04/12/24	04/17/24	
Toluene	ND	0.0250	1	1	04/12/24	04/17/24	
o-Xylene	ND	0.0250	1	1	04/12/24	04/17/24	
p,m-Xylene	ND	0.0500	1	1	04/12/24	04/17/24	
Total Xylenes	ND	0.0250	1	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2415087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2416070
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/17/24	04/18/24	
Surrogate: n-Nonane		115 %	50-200		04/17/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2416076
Chloride	231	20.0	1	1	04/17/24	04/18/24	



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	4/19/2024 11:24:20AM

### BH06 -3' E404108-05

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: R	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: K	ΚM		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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: [	DT		Batch: 2416076
Chloride	312	20.0	1		04/17/24	04/18/24	



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	4/19/2024 11:24:20AM

### BH07 -0' E404108-06

	Reporting					
Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	RKS		Batch: 2415087
ND	0.0250		1	04/12/24	04/17/24	
0.0325	0.0250		1	04/12/24	04/17/24	
0.110	0.0250		1	04/12/24	04/17/24	
0.128	0.0250		1	04/12/24	04/17/24	
0.168	0.0500		1	04/12/24	04/17/24	
0.296	0.0250		1	04/12/24	04/17/24	
	111 %	70-130		04/12/24	04/17/24	
	97.4 %	70-130		04/12/24	04/17/24	
	118 %	70-130		04/12/24	04/17/24	
mg/kg	mg/kg	Analyst: RKS			Batch: 2415087	
ND	20.0		1	04/12/24	04/17/24	
	111 %	70-130		04/12/24	04/17/24	
	97.4 %	70-130		04/12/24	04/17/24	
	118 %	70-130		04/12/24	04/17/24	
mg/kg	mg/kg		Analyst:	KM		Batch: 2416070
15800	250	1	0	04/17/24	04/18/24	
9400	500	1	0	04/17/24	04/18/24	
	119 %	50-200		04/17/24	04/18/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2416076
1270	20.0		1	04/17/24	04/18/24	
	ND 0.0325 0.110 0.128 0.168 0.296  mg/kg ND  mg/kg 15800 9400	Result         Limit           mg/kg         mg/kg           ND         0.0250           0.0325         0.0250           0.110         0.0250           0.128         0.0250           0.168         0.0500           0.296         0.0250           111 %         97.4 %           118 %         mg/kg           ND         20.0           111 %         97.4 %           118 %         118 %           mg/kg         mg/kg           15800         250           9400         500           119 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilu           mg/kg         mg/kg           ND         0.0250           0.0325         0.0250           0.110         0.0250           0.128         0.0250           0.168         0.0500           0.296         0.0250           111 %         70-130           97.4 %         70-130           118 %         70-130           mg/kg         mg/kg           ND         20.0           111 %         70-130           118 %         70-130           mg/kg         mg/kg           15800         250           9400         500           119 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           0.0325         0.0250         1           0.110         0.0250         1           0.128         0.0250         1           0.168         0.0500         1           0.296         0.0250         1           111 %         70-130           97.4 %         70-130           118 %         70-130           mg/kg         mg/kg         Analyst:           118 %         70-130           mg/kg         mg/kg         Analyst:           15800         250         10           9400         500         10           mg/kg         mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         04/12/24           0.0325         0.0250         1         04/12/24           0.110         0.0250         1         04/12/24           0.128         0.0250         1         04/12/24           0.168         0.0500         1         04/12/24           0.296         0.0250         1         04/12/24           97.4 %         70-130         04/12/24           97.4 %         70-130         04/12/24           118 %         70-130         04/12/24           111 %         70-130         04/12/24           97.4 %         70-130         04/12/24           118 %         70-130         04/12/24           118 %         70-130         04/12/24           118 %         70-130         04/12/24           118 %         70-130         04/12/24           118 %         70-130         04/12/24           118 %         70-130         04/12/24           118 %         70-130         04/12/24           118 %         70-130	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         04/12/24         04/17/24           0.0325         0.0250         1         04/12/24         04/17/24           0.110         0.0250         1         04/12/24         04/17/24           0.128         0.0250         1         04/12/24         04/17/24           0.168         0.0500         1         04/12/24         04/17/24           0.296         0.0250         1         04/12/24         04/17/24           97.4 %         70-130         04/12/24         04/17/24           97.4 %         70-130         04/12/24         04/17/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         04/12/24         04/17/24           97.4 %         70-130         04/12/24         04/17/24           97.4 %         70-130         04/12/24         04/17/24           97.4 %         70-130         04/12/24         04/17/24           97.4 %         70-130         04/12/24         04/17/24           97.4 % <td< td=""></td<>



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	4/19/2024 11:24:20AM

## BH07 -2' E404108-07

	_	Reporting	_				
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2416076
Chloride	ND	20.0		1	04/17/24	04/18/24	



# **Sample Data**

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	4/19/2024 11:24:20AM

#### BH07 -3' E404108-08

04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24	Notes  Batch: 2415087  Batch: 2415087
04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24	Batch: 2415087
04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24	
04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24	Datala, 2415097
04/17/24 04/17/24 04/17/24 04/17/24 04/17/24 04/17/24	Datala 2415097
04/17/24 04/17/24 04/17/24 04/17/24	Datala 2415097
04/17/24 04/17/24 04/17/24 04/17/24	Datala 2415097
04/17/24 04/17/24 04/17/24	Datala 2415097
04/17/24	Datala 2415097
04/17/24	Datak, 2415097
	Datah. 2415097
04/17/24	Datah. 2415097
	Datah. 2415097
	Batch: 2413067
04/17/24	
04/17/24	
04/17/24	
04/17/24	
	Batch: 2416070
04/18/24	
04/18/24	
04/18/24	
	Batch: 2416076
	04/17/24 04/17/24 04/18/24 04/18/24

Matador Resources, LLC.
Project Name: Marbob State #2

5400 LBJ Freeway, Suite 1500
Project Number: 23003-C-0001

Dallas TX, 75240
Project Manager: Ashley Giovengo

4/19/2024 11:24:20AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			4/19	//2024 11:24:20A
	V	olatile Organ	ic Compo	unds by El	PA 82601	В		A	nalyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2415087-BLK1)							Prepared: 0-	4/12/24 Analy	vzed: 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: 0	4/12/24 Analy	zed: 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: 0	4/12/24 Analy	zed: 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			
p-Xylene	2.40	0.0250	2.50	ND	96.0	43-135			
o,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: 0	4/12/24 Analy	zed: 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			

0.500

0.500

97.5

90.8

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.488

0.454

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/19/2024 11:24:20AM

Non	halogenated (	Organics l	by EPA 801	15D - G	RO			Analyst: RKS
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2415087-BLK1)							Prepared: 0	4/12/24 Anal	yzed: 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: 0	4/12/24 Anal	yzed: 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: 0	4/12/24 Anal	yzed: 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: 0	4/12/24 Anal	yzed: 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			



Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/19/2024 11:24:20AM

,		, ,		, .	2				
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2416070-BLK1)							Prepared: 0	4/17/24 Ana	lyzed: 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: 0	4/17/24 Ana	lyzed: 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: 0	4/17/24 Ana	lyzed: 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: 0	4/17/24 Ana	lyzed: 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			



Chloride

Chloride

Matrix Spike Dup (2416076-MSD1)

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	23	arbob State #2 003-C-0001					Reported:
Dallas TX, 75240		Project Manager		shley Gioveng				4.	/19/2024 11:24:20AM
		Anions	by EPA 3	00.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits		RPD Limit	N.
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2416076-BLK1)							Prepared: 0	4/17/24 An	alyzed: 04/17/24
Chloride	ND	20.0							
LCS (2416076-BS1)							Prepared: 0	4/17/24 An	alyzed: 04/17/24
Chloride	255	20.0	250		102	90-110	·	·	
Matrix Spike (2416076-MS1)				Source:	E404136-	02	Prepared: 0	4/17/24 An	alyzed: 04/17/24

250

250

20.0

20.0

46.5

46.5

102

101

Source: E404136-02

80-120

80-120

0.367

Prepared: 04/17/24 Analyzed: 04/17/24

20

301

300

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**

ſ	Matador Resources, LLC.	Project Name:	Marbob State #2	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
l	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 Pro	duction (	Company			Bill To				La	b Us	se Or	ly				T	AT	EPA F	rogram
	Marbob Sta				Attention: Ensolu	um LLC		Lab	WO#		^	Job	Num	ber	. 1	D 20			CWA	SDWA
	Manager: As				Address: on file			EC	104	109	8	23	003	-C-00	DI			х		
	: 3122 Natio				City, State, Zip:									nd Meth						RCRA
U	ite, Zip: Carls		88220		Phone: 575-988-0	0055			by											
	575-988-005				Email: agiovengo	@ensolum.com			ORO										State	
	agiovengo@e	ensolum.	com						RO/	7	0	0	0.0			ΣZ	×	NM C	D UT AZ	TX
Report	due by:				12-4				0/0	/ 80	826	6010	e 30	표	- 1		×	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	ВТЕХ by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсеа трн		верос	GDOC		Remark	s
11:50	4/10/2024	Soil	1		SS05A - 0'		1								7	<				
11:52	4/10/2024	Soil	1		SS07A - 0'		2								7	<				
10:08	4/10/2024	Soil	1		BH06 - 0'		3								1	X				
10:26	4/10/2024	Soil	1		BH06 - 2'		4								1	×				
10:28	4/10/2024	Soil	1		BH06 - 3'		5									X				
10:33	4/10/2024	Soil	1		BH07 - 0'		6								7	<				
10:57	4/10/2024	Soil	1		BH07 - 2'		7									X				
11:04	4/10/2024	Soil	1		BH07 - 3'		8								7	X				
10:31	4/10/2024	Soil	1		BH06 - 4'		9								1	<		Do not run f	or BGDOC unless B or 100 TPH	H06 - 3' is > 600 CI
11:06	4/10/2024	Soil	1		BH07 - 4'		10								>	1		Do not run f	or BGDOC unless B	H07 - 31 is > 600 Cl
Addition	nal Instructio	ns: Plea	se CC: cb	ourton@ensol	um.com, agiovengo@e	nsolum.com, char	nilton@e	nsol	um.co	om, i	estr	ella@	ens	olum.c	om					
				y of this sample. I	am aware that tampering with o	or intentionally mislabelli ed by: Cole Burton	ng the samp	e locat	tion,					7				eceived on ice the d less than 6 °C on su		pled or
lo	ed by: (Signatur	W		-11-24 Time	Received by: (Sig	Ganzales	Date 4-11-0	14	Time O	130		Rece	ived	on ice		Lab (	Jse On N	nly		
Ma	ed by: (Signatur	made		-11-24 11	Received by: (Sig		U.//.	14	Time 17	45	)	<u>T1</u>			I	2		<u>T3</u>		
Relingitish	ed by (Signatur	re) 0	U Date	11.24 7	Received by: (Sig	nature) •	Plate	24	Time	15	-	AVG	Tem	p°C_	4					
	trix: <b>S</b> - Soil, <b>Sd</b> - S						Containe				<b>p</b> - p	oly/p	lastic	, ag - ar	nbei					
Note: Sam	ples are discard	led 30 days	after resul	ts are reported u	nless other arrangements are	e made. Hazardous s	amples will	be ret	urned	to cli	ent o	r disp	osed (	of at the					analysis of	the above
samples is	applicable only	to those sa	amples rece	eived by the labo	ratory with this COC. The liab	oility of the laboratory	is limited to	the a	moun	t paid	for	on the	repo	rt.						



#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

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

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.

ensolum.com  COC)  O match the COC?  f samples per sampling site location match ped off by client or carrier? plete, i.e., signatures, dates/times, requeste exceived within holding time?  sis, such as pH which should be conducted in the te hold time, are not included in this disucssion d Time (TAT)  ate standard TAT, or Expedited TAT?  excrecived?  exceived in good condition?  received intact, i.e., not broken?  urity seals present?  dy/security seals intact?  ived on ice? If yes, the recorded temp is 4°C, i. nal preservation is not required, if samples are	ed analyses?	04/12/24 04/18/24 Yes Yes Yes Yes Yes Yes Yes Yes	09:29 17:00 (4 day TAT) Carrier: <u>C</u>	For BH06 -	-4 (Sample 9	Angelina Pineda  ts/Resolution  ): Do not run for
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eceived in good condition? received intact, i.e., not broken? urity seals present? dy/security seals intact? ived on ice? If yes, the recorded temp is 4°C, i. nal preservation is not required, if samples are					niess BH06 -	·3 is >600CL or
received intact, i.e., not broken? urity seals present? dy/security seals intact? ived on ice? If yes, the recorded temp is 4°C, i. nal preservation is not required, if samples are		Yes		100TPH. F	or BH07 -4	(Sample 10): Do not
urity seals present? dy/security seals intact? ived on ice? If yes, the recorded temp is 4°C, i. nal preservation is not required, if samples are						BH07 -3 is >600CL
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dy/security seals intact? ived on ice? If yes, the recorded temp is 4°C, i. nal preservation is not required, if samples are		No		or 100TPH		
ived on ice? If yes, the recorded temp is 4°C, i. nal preservation is not required, if samples are		NA				
nal preservation is not required, if samples are	- (0.300					
ampling		Yes				
ecord the temperature. Actual sample to	emperature: 4°C	2	1			
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oranie weight of number of sample contains	as concued?	162	j			
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laboratory specified by the client and if s	so who?	NA	Subcontract Lab	: NA		
	e labels filled out with the minimum information of lected?  me?  1.  field labels indicate the samples were presented preserved?  equired and/or requested for dissolved meaning may be more than one phase, i.e., multiphase, occuping which phase(s) is to be analyzatory.  ired to get sent to a subcontract laboratory.	s collected in VOA Vials?  less than 6-8 mm (pea sized or less)?  TB) included for VOC analyses?  nples collected in the correct containers?  rotume/weight or number of sample containers collected?  e labels filled out with the minimum information:  ollected?  me?  1  field labels indicate the samples were preserved?  rectly preserved?  equired and/or requested for dissolved metals?  Matrix  nave more than one phase, i.e., multiphase?  OC specify which phase(s) is to be analyzed?	s collected in VOA Vials?  less than 6-8 mm (pea sized or less)?  TB) included for VOC analyses?  nples collected in the correct containers?  yes  rolume/weight or number of sample containers collected?  Yes  e labels filled out with the minimum information:  Yes  collected?  yes  field labels indicate the samples were preserved?  No  rectly preserved?  equired and/or requested for dissolved metals?  No  Matrix  nave more than one phase, i.e., multiphase?  No  OC specify which phase(s) is to be analyzed?  No  tory  ired to get sent to a subcontract laboratory?  No	s collected in VOA Vials?  less than 6-8 mm (pea sized or less)?  TB) included for VOC analyses?  nples collected in the correct containers?  rotume/weight or number of sample containers collected?  Yes  e labels filled out with the minimum information:  Yes  pollected?  Yes  Telmonton:  Yes  pollected?  Yes  Telmonton:  Yes  Telmonton:  Yes  No  Tectly preserved?  NA  equired and/or requested for dissolved metals?  No  Matrix  nave more than one phase, i.e., multiphase?  OC specify which phase(s) is to be analyzed?  No  No  No  No  No  No  No  No  No  N	s collected in VOA Vials?  less than 6-8 mm (pea sized or less)?  TB) included for VOC analyses?  nples collected in the correct containers?  rotume/weight or number of sample containers collected?  e labels filled out with the minimum information:  yes  cllected?  Yes  ne?  Yes  field labels indicate the samples were preserved?  No  rectly preserved?  equired and/or requested for dissolved metals?  No  Matrix  nave more than one phase, i.e., multiphase?  OC specify which phase(s) is to be analyzed?  No  No  No  No  No  No  No  No  No  N	se collected in VOA Vials?  less than 6-8 mm (pea sized or less)?  TB) included for VOC analyses?  nples collected in the correct containers?  yes  rolume/weight or number of sample containers collected?  e labels filled out with the minimum information:  yes  ollected?  yes  me?  Yes  field labels indicate the samples were preserved?  No  rectly preserved?  NA  equired and/or requested for dissolved metals?  No  Matrix  nave more than one phase, i.e., multiphase?  OC specify which phase(s) is to be analyzed?  NA  tory  ired to get sent to a subcontract laboratory?  No

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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## **Sample Summary**

Γ	Matador Resources, LLC.	Project Name:	Marbob State #2	Donoutode
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
l	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.	Project Name:	Marbob State #2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2024 9:26:48AM

#### SS09 -0' E404109-01

		12404107-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2416033
Chloride	96.8	20.0	1	04/15/24	04/16/24	

		J	
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 Orga	nics by EPA 8021B	Analyst BA

Dallas TX, 75240		Project Number: Project Manager:		3003-C-0001 Ashley Giovengo	)			4/1	8/2024 9:26:48AM			
	Volatile Organics by EPA 8021B							Analyst: BA				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2415085-BLK1)							Prepared: 0-	4/12/24 Anal	yzed: 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: 0	4/12/24 Anal	yzed: 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: E	2404106-2	27	Prepared: 0	4/12/24 Anal	yzed: 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: E	2404106-2	27	Prepared: 0	4/12/24 Anal	yzed: 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						

Surrogate: 1-Chloro-4-fluorobenzene-FID

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/18/2024 9:26:48AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			4/1	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		
Blank (2415085-BLK1)							Prepared: 0	4/12/24 Ana	lyzed: 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: 0	4/12/24 Ana	lyzed: 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: 0	4/12/24 Ana	lyzed: 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: 0	4/12/24 Ana	lyzed: 04/15/24		
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.5	70-130	1.85	20			

8.00

6.98

87.2

70-130

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/18/20249:26:48AM

, ,,=		, ,		, .	2						
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: KM		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2416044-BLK1)							Prepared: 0	4/16/24 Ana	lyzed: 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: 0	4/16/24 Ana	lyzed: 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: 0	4/16/24 Ana	lyzed: 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: 0	4/16/24 Ana	lyzed: 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					

Matrix Spike Dup (2416033-MSD1)

Chloride

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 23	arbob State #2 003-C-0001 shley Gioveng					<b>Reported:</b> 4/18/2024 9:26:48AM
		Anions	by EPA 3	00.0/9056	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2416033-BLK1)							Prepared: 0-	4/15/24 Ai	nalyzed: 04/16/24
Chloride	ND	20.0							
LCS (2416033-BS1)							Prepared: 0	4/15/24 A	nalyzed: 04/16/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416033-MS1)				Source:	E404117-0	01	Prepared: 0	4/15/24 A	nalyzed: 04/16/24
Chloride	322	20.0	250	66.0	102	80-120			

250

20.0

Source: E404117-01

102

80-120

0.119

66.0

#### 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.



Prepared: 04/15/24 Analyzed: 04/16/24

20

## **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.



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Printed: 4/12/2024 5:07:32PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If

Date Received:	04/12/24	07:15		Work Order ID:	E404109	
Date Logged In:	04/12/24	09:47		Logged In By:	Angelina Pineda	
Due Date:	04/18/24	17:00 (4 day TAT)				
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Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408130

Job Number: 23003-0002

Received: 8/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/19/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

**Michelle Gonzales** 

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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QC - Nonhalogenated Organics by EPA 8015D - GRO	7
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## **Sample Summary**

Γ	Matador Resources, LLC.	Project Name:	Marbob State #2	Donoutod.
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/19/24 09:50

Client Sample ID	Lab Sample ID Ma	ntrix S	Sampled	Received C	Container
FS01 - 4'	E408130-01A So	oil	08/12/24	08/14/24	Glass Jar, 2 oz.



## **Sample Data**

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	8/19/2024 9:50:39AM

#### FS01 - 4' E408130-01

		E400130-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2433076
Chloride	104	20.0	1	08/14/24	08/14/24	

Surrogate: 4-Bromochlorobenzene-PID

## **QC Summary Data**

		QC S	umma	ny Data	a				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	arbob State #2 003-0002 shley Gioveng				8/	<b>Reported:</b> 19/2024 9:50:39AM
		Volatile O	rganics b	y EPA 802	21B				Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433067-BLK1)						]	Prepared: 0	8/14/24 Ana	ılyzed: 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							

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

8.00

90.0

70-130

Matrix Spike (2433067-MS1)					E408127-	02	Prepared: 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:	Source: E408127-02			Prepared: 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		

Surrogate: 1-Chloro-4-fluorobenzene-FID

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/19/20249:50:39AM

Dallas TX, 75240		Project Manage	r: As	shley Giovens	go			8/19	9/2024 9:50:39AM	
	Nor	halogenated	Organics	by EPA 80	15D - G	RO		Analyst: CG		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD %	RPD Limit %	Nistra	
	mg/kg	mg/kg	mg/kg	mg/kg	%0	%0	%0	<del>%</del> 0	Notes	
<b>Blank (2433067-BLK1)</b> Prepared: 0									yzed: 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: 0	8/14/24 Analy	yzed: 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:	<b>Source: E408127-02</b> Prepared: 08			8/14/24 Analy	yzed: 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: 0	8/14/24 Analy	yzed: 08/14/24	
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130	2.41	20		

8.00

7.55

94.4

70-130



Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/19/2024 9:50:39AM

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	Nonha		Analyst: KM						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433075-BLK1)							Prepared: 0	8/14/24 Ana	lyzed: 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/		
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: 0	8/14/24 Ana	lyzed: 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: 0	8/14/24 Ana	lyzed: 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			

Chloride

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		arbob State #2 003-0002	2				Reported:
Dallas TX, 75240		Project Manager		hley Gioveng	go				8/19/2024 9:50:39AM
		Anions	by EPA 3	00.0/9056	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433076-BLK1)							Prepared: 0	8/14/24 A	nalyzed: 08/14/24
Chloride	ND	20.0							
LCS (2433076-BS1)							Prepared: 0	8/14/24 A	nalyzed: 08/14/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2433076-MS1)				Source:	E408127-	01	Prepared: 0	8/14/24 A	nalyzed: 08/14/24
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2433076-MSD1)				Source:	E408127-	01	Prepared: 0	8/14/24 A	nalyzed: 08/14/24

250

20.0

ND

102

80-120

0.803

#### 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.



	Clie	nt Inform	ation				Invoice Information	1				La	b Us	e Or	nly				T/	AT			Stat	e
Client: Matador Production Company			Company: Ensolum LLC				Lab WO# Job Number						_	1D	2D	3D S	d	NM	CO UT	TX				
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Addition	al Instructio	ns: Plea	se CC:	cburton@	ensolum	.com.	, agiovengo@ensolum.com,	iestrella	@ens	olur	m.coi	n, bo	leai@	ens	olun	n.cor	n, ch	amil	ton@	ensol	ım.c	com,		
	ns@ensolum					•		1	_			•					•			-		•		
l, (field sam	pler), attest to the	e validity and		ity of this sam	ole. I am av	vare tha	t tampering with or intentionally mislab	eling the s	ample lo	catio	n, date	or time	e of co	llectio	n is co	nsider	ed frau	d and	may b	e grounds	for le	gal action.		
	:Brandon Deal		<b>=</b>																					
Relinquish	ed by: (Signatur	re)	Dat	1 ) .	Time		Prejvedby: (Genatura) Wichelle Gonza	Dat	•	4(/	Time					1 .	-	_	-				on ice the da	
PE	ea X		08	113/24	093	Dam		16818	-13.	77	0	930	<u> </u>				ed or re		packed	l in ice at a	avg te	emp above (	0 but less tha	n 6 °C on
Relinquished by (Signature) Date Time			Time	Received by: (Signature) Date			-	74 1645				Lab Use Only Received on ice: (Y)/ N												
Relinguish	ed by: (Signatur	re)	Dat	: કે.ાડ.પ્ય	Time	00	Received by: (Signature)	Dat	-  -	34	Time	300				T1				T2			<u>T3</u>	
Relinquish	ed by: (Signatur		Dat		Time		Received by: (Signature)	Dat			Time					AVG	i Ten	np °C	c	1				
Sample Mar	rix: <b>S -</b> Soil, <b>Sd -</b> S	olid, Sg - Sluc	dge, A - Aq	ueous, O - Oth	er			Co	ntainer	Тур	e: g -	glass	, p - I	oly/	plasti					v - VOA				
							arrangements are made. Hazardou										e clier	nt exp	ense.	The repo	ort fo	r the ana	ysis of the	above
samples is	applicable only	to those sa	amples re	ceived by th	e laborato	ry with	this COC. The liability of the labora	tory is lir	nited to	the	amoui	nt paid	d for d	on the	repo	rt.								

(2)

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

#### **Envirotech Analytical Laboratory**

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 a	Custody (COC)					
			<b>V</b>			
	he sample ID match the COC?  he number of samples per sampling site location mat	ch the COC	Yes			
	samples dropped off by client or carrier?	on the coc	Yes Yes	Comion Courier		
	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: <u>Courier</u>		
	all samples received within holding time?	ica anaryses.	Yes			
3. West	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		100		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes			
Sample	Container_					
	iqueous 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 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field La	<u>bel</u>					
20. Were	field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	40	NT.			
	the COC or field labels indicate the samples were pr	eserved?	No			
	ample(s) correctly preserved?  of filteration required and/or requested for dissolved m	otolo?	NA N-			
		ciais?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If yes	s, does the COC specify which phase(s) is to be analy	zed?	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if	•	No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Page 12 of 12

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408146

Job Number: 23003-0002

Received: 8/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/21/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762 whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Client Representative

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Matador Resources, LLC.	Project Name:	Marbob State #2	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/21/24 16:48

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.



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	8/21/2024 4:48:33PM

#### FS09 - 1' E408146-01

		2.001.0 01					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2433116
Chloride	116	20.0		1	08/16/24	08/16/24	
Cilionae	110	20.0		•	00/10/21	00/10/21	



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	8/21/2024 4:48:33PM

#### FS10 - 1' E408146-02

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Anaryte	Kesun	Lillit	Dilui	ion riepared	Anaryzed	INUIES
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: WF		Batch: 2433116
Chloride	48.5	20.0	1	08/16/24	08/16/24	<del></del>

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	8/21/2024 4:48:33PM

#### FS02 - 4' E408146-03

		E400140-05				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
,				1	7 mary zea	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: WF		Batch: 2433116
Chloride	89.0	20.0	1	08/16/24	08/16/24	

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	8/21/2024 4:48:33PM

#### FS03 - 4' E408146-04

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: WF		Batch: 2433116
Chloride	97.5	20.0	1	08/16/24	08/16/24	

Matador Resources, LLC.
Project Name: Marbob State #2

5400 LBJ Freeway, Suite 1500
Project Number: 23003-0002

Dallas TX, 75240
Project Manager: Ashley Giovengo 8/21/2024 4:48:33PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/2	1/2024 4:48:33PI
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433118-BLK1)							Prepared: 0	8/16/24 Analy	yzed: 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: 0	8/16/24 Analy	yzed: 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: 0	8/16/24 Analy	yzed: 08/16/24
Benzene	2.29	0.0250	2.50	ND	91.6	48-131	1		·
Ethylbenzene	2.28	0.0250	2.50	ND	91.0	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
p-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: 0	8/16/24 Analy	yzed: 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			
a	0.406		0.500		07.2	70 120			



0.500

0.500

97.2

105

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.486

0.523

Matrix Spike Dup (2433118-MSD2)

Gasoline Range Organics (C6-C10)

 ${\it Surrogate: Bromofluor obenzene}$ 

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

49.6

0.496

0.494

0.530

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/21/2024 4:48:33PM

Dallas TX, 75240		Project Manager	r: As	shley Gioveng	go			8/2	21/2024 4:48:33PI
	Non		Analyst: IY						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433118-BLK1)							Prepared: 0	8/16/24 Anal	yzed: 08/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Gurrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Gurrogate: 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: 0	8/16/24 Anal	yzed: 08/16/24
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Gurrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Gurrogate: 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: 0	8/16/24 Anal	yzed: 08/16/24
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Gurrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Jurrogate: Toluene-d8	0.530		0.500		106	70-130			

50.0

0.500

0.500

0.500

20.0

Source: E408148-05

99.2

99.1

98.8

106

ND

70-130

70-130

70-130

70-130

Prepared: 08/16/24 Analyzed: 08/16/24

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

, ,,=		,			5-				
	Nonha	Analyst: NV							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433109-BLK1)							Prepared: 0	8/15/24 Ana	lyzed: 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: 0	8/15/24 Ana	lyzed: 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: 0	8/15/24 Ana	lyzed: 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: 0	8/15/24 Ana	lyzed: 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			

Chloride

Chloride

Matrix Spike Dup (2433116-MSD1)

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	23	farbob State #2 3003-0002 shley Gioveng				8	<b>Reported:</b> 4:48:33PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	<b>\</b>				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 (2433116-BLK1)							Prepared: 0	8/16/24 An	alyzed: 08/16/24
Chloride	ND	20.0							
LCS (2433116-BS1)							Prepared: 0	8/16/24 An	alyzed: 08/16/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2433116-MS1)				Source:	E408146-	04	Prepared: 0	8/16/24 An	alyzed: 08/16/24

250

250

20.0

20.0

97.5

97.5

102

95.8

Source: E408146-04

80-120

80-120

4.11

Prepared: 08/16/24 Analyzed: 08/16/24

20

351

337

#### 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**

Γ	Matador Resources, LLC.	Project Name:	Marbob State #2	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	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.



P	age _	of.	1	R
te				eceiv
1	TX			ed b
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an				CD
1	RCRA			-
	or N			2/5/2024
s				Received by OCD: 12/5/2024 11:43:25 AM
				AM

	Clie	nt Inform	nation			Invoice Information					La	b Us	e On	ly				TA	Г	State	
	latador Prod Marbob Stat	12.00	ompar	ny		npany: Ensolum LLC Iress: 3122 National Parks H	wy		Lab E	wo#	146	6	Job 1 230			2	1D	2D :	3D Sto	NM CO UT TX	
	lanager: Asl					, State, Zip: Carlsbad NM, 88	3220	_	13												
	3122 Natio					ne: 575-988-0055							Ana	lysis	and	Met	hod			EPA Program	-
	e, Zip: Carls		88220			ail: agiovengo@ensolum.c	om													SDWA CWA RC	RA
	75-988-005				Misc	ellaneous:														C " -   V	NI.
Email: ag	giovengo@e	nsolum.c	com				_)			8015	8015									Compliance Y or PWSID#	N
-							4			by 8	by 8	)21	09	0.00	Σ	XT.	etals			PW3ID#	
					ple Informatio	n	hr. 1	- 15	h	ORO	DRO	by 80	y 82	de 3	- N	5001	8 M			Remarks	
Time Sampled	Date Sampled	Matrix	No. o Contain			Sample ID	Field	La Num	ber	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Kemaks	
9:47	8/14/2024	Soil	1			FS09 - 1'		1							x						
9:48	8/14/2024	Soil	1			FS10 - 1'	1	2	)						x						
10:49	8/14/2024	Soil	1			FS02 - 4'		3	)						х					N =	
10:50	8/14/2024	Soil	1			FS03 - 4'		4							х						
bsimmor I, (field samp	ns@ensolum	n.com e validity an				agiovengo@ensolum.com, i															
Religguish	ed by: (Signatu			Date	Time	Received by: (Signature)	6 Date	2		Time					100000	201-00-00-00-00-00-00-00-00-00-00-00-00-0	**************************************			nust be received on ice the day they a	
Mull				8/15/24	9:30 am	Wichelle Gonza	les 8.	152	4	C	930	0				ed or re		oacked i		vg temp above 0 but less than 6 °C on	1
Religiouish	ad by (Signatu	re)	les	8-15.14	2240	Muhelle Gonza Received by: (Signature)	Date 8	-16-2	14	Time	800	O			Rec	eive	d on i	ce:	O	Jse Only N	
Relinquish	ed by: (Signatu	re)	ı	Date	Time	Received by: (Signature)	Date	9		Time					T1				T2	Т3	
Relinquish	ed by: (Signatu	re)	ı	Date	Time	Received by: (Signature)	Date	2		Time					AVG	i Ter	np °C		- VOA		
Sample Mat	rix: S - Soil, Sd - S	olid, Sg - Slu	idge, A -	Aqueous, O - Oth	er		Cor	ntaine	Тур	e: g -	glass	, p -	poly/	plasti	c, ag	- am	ber gl	ass, v	- VOA		
Note: Sam	ples are discard	ded 14 day	s after r	esults are repor	rted unless other	arrangements are made. Hazardou this COC. The liability of the labora	s sample	s will be	e reti	ırned	to clie	ent or	dispo	sed of	f at th	e clie	nt exp	ense. T	The repo	t for the analysis of the above	е

envirotecl

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

## **Envirotech Analytical Laboratory**

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 a	f Custody (COC)					
			37			
	the sample ID match the COC? The number of samples per sampling site location mat	ch the COC	Yes			
	samples dropped off by client or carrier?	en die eee	Yes Yes	Ci Ci		
	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: <u>Courier</u>		
	all samples received within holding time?	ica analyses.	Yes			
3. Wele	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		103		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	Container_					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	•	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La						
•	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved m	etals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborator	y?	No			
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab: NA		
Client I	nstruction					
<u>eneme i</u>	noti detion					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408152

Job Number: 23003-0002

Received: 8/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/23/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Lynn Jarboe

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**Michelle Gonzales** 

Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

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

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.



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	8/23/2024 6:54:23AM

#### FS11 - 4' E408152-01

		E400132-01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilu	tion	ricpareu	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RI	ΚS		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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RI	KS		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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: N	V		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1		08/19/24	08/20/24	<u> </u>
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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: D	Γ		Batch: 2434002
Chloride	204	20.0	1		08/19/24	08/19/24	



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	8/23/2024 6:54:23AM

#### FS13 - 2-4' E408152-02

		E400132-02				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2434002
Chloride	307	20.0	1	08/19/24	08/19/24	



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	8/23/2024 6:54:23AM

#### FS12 - 2' E408152-03

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

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	8/23/2024 6:54:23AM

#### SW01 - 0-2' E408152-04

					2.00102 0.		
Notes	Analyzed	Dranarad	ilution	D:	Reporting Limit	Result	Analyta
Notes	Anaiyzed	Prepared	nution	Di	Limit	Kesuit	Analyte
Batch: 2434001		: RKS	Analyst:		mg/kg	mg/kg	Volatile Organic Compounds by EPA 8260B
	08/19/24	08/19/24	1		0.0250	ND	Benzene
	08/19/24	08/19/24	1		0.0250	ND	Ethylbenzene
	08/19/24	08/19/24	1		0.0250	ND	Toluene
	08/19/24	08/19/24	1		0.0250	ND	o-Xylene
	08/19/24	08/19/24	1		0.0500	ND	p,m-Xylene
	08/19/24	08/19/24	1		0.0250	ND	Total Xylenes
	08/19/24	08/19/24		70-130	103 %		Surrogate: Bromofluorobenzene
	08/19/24	08/19/24		70-130	95.8 %		Surrogate: 1,2-Dichloroethane-d4
	08/19/24	08/19/24		70-130	98.6 %		Surrogate: Toluene-d8
Batch: 2434001		: RKS	Analyst:		mg/kg	mg/kg	Nonhalogenated Organics by EPA 8015D - GRO
	08/19/24	08/19/24	1		20.0	ND	Gasoline Range Organics (C6-C10)
	08/19/24	08/19/24		70-130	103 %		Surrogate: Bromofluorobenzene
	08/19/24	08/19/24		70-130	95.8 %		Surrogate: 1,2-Dichloroethane-d4
	08/19/24	08/19/24		70-130	98.6 %		Surrogate: Toluene-d8
Batch: 2434004		: NV	Analyst:		mg/kg	mg/kg	Nonhalogenated Organics by EPA 8015D - DRO/ORO
	08/20/24	08/19/24	1		25.0	ND	Diesel Range Organics (C10-C28)
	08/20/24	08/19/24	1		50.0	ND	Oil Range Organics (C28-C36)
	08/20/24	08/19/24		50-200	93.6 %		Surrogate: n-Nonane
Batch: 2434002		: DT	Analyst:		mg/kg	mg/kg	Anions by EPA 300.0/9056A
	08/19/24	08/19/24	1	_	20.0	112	Chloride
_		: DT		50-200	mg/kg		Anions by EPA 300.0/9056A

Matador Resources, LLC.Project Name:Marbob State #25400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo8/23/2024 6:54:23 AM

#### SW02 - 0-2' E408152-05

		E400132-03				
Analyte	Result	Reporting Limit	Dilut	tion Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilui	non Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2434002
Chloride	ND	20.0	1	08/19/24	08/19/24	



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	8/23/2024 6:54:23AM

#### FS04 - 4' E408152-06

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2434002
Chloride	215	20.0	-		08/19/24	08/19/24	

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

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/2	3/2024 6:54:23AN
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434001-BLK1)						I	Prepared: 0	8/19/24 Anal	yzed: 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)						F	Prepared: 08	8/19/24 Anal	yzed: 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)						I	Prepared: 0	8/19/24 Anal	yzed: 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			
~									

0.500

97.9

70-130

0.490



Surrogate: Toluene-d8

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/23/2024 6:54:23AM

Nonhalogenated	Organics	by EPA	8015D -	GRO

Analyst: RKS

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

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434001-BLK1)							Prepared: 0	8/19/24 Anal	yzed: 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: 0	8/19/24 Anal	yzed: 08/19/24
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.7	70-130			

0.500

0.500

0.500

103

97.2

98.8

70-130

70-130

70-130

11.1

LCS Dup (2434001-BSD	2)

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	95.7	70-130	
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	

0.513

0.486

0.494



Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/23/2024 6:54:23AM

Danas 1X, 73240		1 Toject Ivianage	. 7 to	micy Gloveng	50			0.2	5/2021 0.51.2511
	Nonha	Analyst: NV							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434004-BLK1)							Prepared: 0	8/19/24 Anal	yzed: 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: 0	8/19/24 Anal	yzed: 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: 0	8/19/24 Anal	yzed: 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: 0	8/19/24 Anal	yzed: 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			

Chloride

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		1arbob State #2 3003-0002	!				Reported:
Dallas TX, 75240		Project Manager	r: A	shley Gioveng	o				8/23/2024 6:54:23AM
		Anions	by EPA	300.0/9056 <i>A</i>					Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434002-BLK1)							Prepared: 0	8/19/24 A	nalyzed: 08/19/24
Chloride	ND	20.0							
LCS (2434002-BS1)							Prepared: 0	8/19/24 A	nalyzed: 08/19/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2434002-MS1)				Source:	E408151-	04	Prepared: 0	8/19/24 A	nalyzed: 08/19/24
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2434002-MSD1)				Source:	E408151-	04	Prepared: 0	8/19/24 A	nalyzed: 08/19/24

250

20.0

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**

l	Matador Resources, LLC.	Project Name:	Marbob State #2	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	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.



Page	1	of	1
_	-		

Lient: Martador Production Compeny (rote: Martobo State #2 protect:		Clie	nt Inform	ation			Invoice Information	on				Lab U	se Or	ıly				TA	\T	State
Trotect: Marbob State #2  Indicational Parks thwy City. State. 20; Carlobad NN, 882.0  Phone: 575-988-0055  mail: aglovengo@ensolum.com  Sample Information  Sample Information  Sample Information  Sample Information  Sample Information  Sample Information  The Control of Sample Sample Sample Sample Sample Information  The Sample Sample Sample Sample Sample Information  The Sample Information  Information  Sample Information  Sample Information  Information  Sample Information  Information  Sample Information  Information  Information  Sample Information  Information  Information  Information  Sample Information  Inform	Client: N	Aatador Prod	luction Co	ompany			Company: Ensolum LLC		La	b WC	D#		Job	Num	ber		1D	2D	3D Std	NM CO UT TX
Tribed that is a control of the cont							Address: 3122 National Parks	Hwv	F	40	815	52	230	173-	-000	2				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, beaughted supplications be wideling and audiencity of this sample. In an easier that majoring with or intentionally mulabeling the sample beaution. Semined by Complication of the sample control of the samp				engo							0.0		I/A/A	M						
Ithy State Z. Dis. Carlshada NM, 88220		m mostopicomercia. s. d.						OOLLO	_				Ana	lysis	and	Met	hod	_		EPA Program
Miscellaneous:    Miscellaneous:   Misce				ETT LATER A					_		1		TAIL	1,4313	una	1111	1100			
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Sample Information  Time Sample Matrix Consistent  Sample Information  Time Sample Matrix Consistent  Sample Information  Sample ID						\	liscellaneous:													a u lylada
11:41 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 SW01 - 0-2' 4 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 TITUE	Email: a	giovengo@e	nsolum.c	om						115	115									
11:41 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 SW01 - 0-2' 4 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 TITUE										8 8	8 %	77	0	0.0	Σ	×	tals			PWSID#
11:41 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 SW01 - 0-2' 4 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - A' 1 0 X X 1 1 15:57 8/15/2024 Soil 1 TITUE					Sam	ple Informa	ation			200	000	/ 80	826	e 30	Z	- 50	Ne Ne			
11:41 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 FS13 - 2-4' 2 3 X X 1 1 15:55 8/15/2024 Soil 1 SW01 - 0-2' 4 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 SW02 - 0-2' 5 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 FS04 - 4' 0 X X 1 1 15:57 8/15/2024 Soil 1 TITLE TO THE	Time Sampled	Date Sampled	Matrix				Sample ID	Field	Lab Numb	er O/O/O	GRO/D	втех ь	VOC by	Chlorid	верос	TCEQ 10	RCRA 8			Remarks
Soil 1  Size 2  Soil 1  Size 2  Soil 1  Size 2  Size 3/15/2024  Soil 1  Size 3/15/2024  Size 3	11:41	8/15/2024	Soil	1			FS11 - 4'	P	1						х					
13:55 8/15/2024 Soil 1 SW01 - 0-2'	13:37	8/15/2024	Soil	1			FS13 - 2-4'		2						x					
15:27 8/15/2024 Soil 1 SW02 - 0-2' S X X 1  15:57 8/15/2024 Soil 1 SW02 - 0-2' S X X 1  15:57 8/15/2024 Soil 1 FS04 - 4' U X X X X X X X X X X X X X X X X X X	13:55	8/15/2024	Soil	1			FS12 - 2'								x					
Soil 1  FS04 - 4¹  O X X  Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, psimmons@ensolum.com  (Relid sampler, state 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.  Time  Oate  Oate  Time  Oate  Oate  Oate  Oate  Time  Oate  Oa	15:27	8/15/2024	Soil	1			SW01 - 0-2'								х					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, sismmons@ensolum.com    Spimmons@ensolum.com	15:02	8/15/2024	Soil	1			SW02 - 0-2'		5						x					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, psimmons@ensolum.com, steer 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.    Samples for time   Date   Time	15:57	8/15/2024	Soil	1			FS04 - 4'								x					
Actinquished by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  OSIN/262  Time  OSIN/262  Time  OSIN/263  Received by: (Signature)  Date  OSIN/263  Time																				
Actinquished by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  OSIN/262  Time  OSIN/262  Time  OSIN/263  Received by: (Signature)  Date  OSIN/263  Time																				
Actinquished by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  OSIN/262  Time  OSIN/262  Time  OSIN/263  Received by: (Signature)  Date  OSIN/263  Time																				
Actinquished by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  Received by: (Signature)  Date  OSIN/262  Time  OSIN/262  Time  OSIN/262  Time  OSIN/263  Received by: (Signature)  Date  OSIN/263  Time																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA   Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA				ase CC: cb	urton@e	ensolum.co	m, agiovengo@ensolum.com	, iestrella	@enso	lum.c	om,	bdeal	@ens	solun	n.cor	m, ch	amil	ton@	ensolur	m.com,
Relinquished by: (Signature)  Relinquished by: (Signature)  Received by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)  Received by: (Signat				dauthenticity	of this samp	ole. I am aware	that tampering with or intentionally misla	abeling the sa	mple loca	tion, da	te or ti	ime of c	ollectio	n is co	nsider	ed frau	ıd and ı	may be	e grounds fo	or legal action.
Relinquished by: (Signature)  Date  OS/11/262  Time  OS/11/263  Time  OS/1							. 0													
Relinquished by (Signature)  Relinquished by (Signature)  Relinquished by (Signature)  Relinquished by (Signature)  Relinquished by (Signature)  Relinquished by (Signature)  Received by (Signature	2100710001000	ACCURAGE OF PRINCIPLE		Date		Time	Received by: (Signature)	Date	1.1-	Tin	ne do	, ,	1		Samp	les requ	iring the	ermal p	reservation n	nust be received on ice the day they are
Relinquished by (Signature)  Relinquished by (Signature)  Date  Time  Received by (Signature)  Date  Time  AVG Temp °C  Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	11	1111	10)	08	116/2/2			19	40-2	4	13	16						packed	in ice at an a	vg temp above 0 but less than 6 °C on
Relinquished by: (Signature)  Date  B. 16.14 7400  Received by: (Signature)  Date  B. 16.14 7400  Date  B. 16.14 7400  Date  Date  Date  Time  Received by: (Signature)  Date  Date  Date  Time  AVG Temp °C  AVG Temp octoons and the proper of the property	Relinquis	ed by (Signatu	re)	1	1021	De/cl	I WAVY	Og B		TIM	174	15						ce:		Market Programmer and Control of the
Relinquished by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  AVG Temp °C  Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	Relinquish	ed by: (Signatu	ye) M.Q		16.7.4	7400	Received by: (Signature)	Date		Tin C	ne 7: 7	30			T1	2000	, a, 5,00/18		T2	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	Relinquish	ned by: (Signatu		Date	1401	Time				Tin	ne				AVO	3 Ter	np °C		4	
	Sample Ma	trix: S - Soil. Sd - S	Solid, Sg - Slu	dge, A - Aque	ous, O - Oth	er		Cor	ntainer 1	ype: g	g - gla	ss, p -	poly/	plasti	A SHAREST SHARE		and the contract of		/-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	Note: Sam	inles are discar	ded 14 days	s after result	s are reno	rted unless of	her arrangements are made. Hazard													t for the analysis of the above

envirotech environment envir

Printed: 8/19/2024 11:36:46AM

#### **Envirotech Analytical Laboratory**

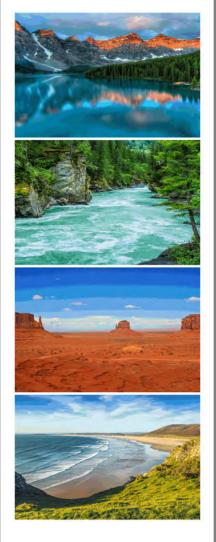
Sample Receipt Checklist (SRC)

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)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC					
	amples dropped off by client or carrier?	en ine eee	Yes Yes	<b>a</b> : <b>a</b>			
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: <u>C</u>	<u>ourier</u>		
	Il samples received within holding time?	ica anaryses:	Yes				
3. Were as	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		103			Comment	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, <u> </u>	temperature. 1	<u> </u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · · · · · · · · · · · · · · · · · ·	iers conecteur	105				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes	l			
C	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	NIA		
	· - · · ·	so who.	1421	Subcontract Lab	, NA		
Client In	<u>astruction</u>						
L							

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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Client Representative

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mgonzales@envirotech-inc.com

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## **Sample Summary**

Reported:
Keporteu.
08/21/24 08:12
ı;

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



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	8/21/2024 8:12:56AM

#### FS06 - 7' E408162-01

		E400102-01					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2434024
Benzene	ND	0.0250	1	1	08/20/24	08/20/24	
Ethylbenzene	ND	0.0250	1	1	08/20/24	08/20/24	
Toluene	ND	0.0250	1	1	08/20/24	08/20/24	
o-Xylene	ND	0.0250	1	1	08/20/24	08/20/24	
p,m-Xylene	ND	0.0500	1	1	08/20/24	08/20/24	
Total Xylenes	ND	0.0250	1	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg			Analyst:	RKS		Batch: 2434024
Gasoline Range Organics (C6-C10)	ND	20.0	1	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434021
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/20/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/20/24	08/20/24	
Surrogate: n-Nonane		92.6 %	50-200		08/20/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2434030



Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/21/20248:12:56AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/2	:1/2024 8:12:56AN
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434024-BLK1)						P	repared: 0	8/19/24 Anal	yzed: 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)						P	repared: 0	8/19/24 Anal	yzed: 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)						P	repared: 0	8/19/24 Anal	yzed: 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			
~									

0.500

98.7

70-130

0.494



Surrogate: Toluene-d8

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/21/20248:12:56AM

Nonhalogenated	Organics	by EPA	8015D -	GRO

Analyst: RKS

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

Blank (2434024-BLK1)						Prepared: 08	3/19/24 Ana	lyzed: 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	3/19/24 Ana	lyzed: 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	3/19/24 Ana	lyzed: 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**

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

	Nonhal	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: NV	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2434021-BLK1)							Prepared: 0	8/20/24 Ana	lyzed: 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: 0	8/20/24 Ana	lyzed: 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: 0	8/20/24 Ana	lyzed: 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				



Matrix Spike Dup (2434030-MSD1)

Chloride

254

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 2:	Iarbob State #2 3003-0002 .shley Gioveng					<b>Reported:</b> 8/21/2024 8:12:56AM
		Anions	by EPA	300.0/9056 <i>A</i>	<b>\</b>				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
Blank (2434030-BLK1)							Prepared: 0	8/20/24 Aı	nalyzed: 08/20/24
Chloride	ND	20.0							
LCS (2434030-BS1)							Prepared: 0	8/20/24 Aı	nalyzed: 08/20/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2434030-MS1)				Source:	E408161-	03	Prepared: 0	8/20/24 Aı	nalyzed: 08/20/24
Chloride	253	20.0	250	ND	101	80-120			

250

20.0

Source: E408161-03

ND

102

80-120

0.612

#### 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.



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

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## **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.

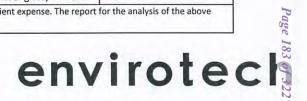
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page	of )
	-

	Clier	t Inform	nation			Invoice Informa	ation				La	ab Us	e On	ly				TA	T	State
Client: N	Natador Prod	uction C	ompany		Co	mpany: Ensolum LLC			Lab	wo	#		Job I	Vum	ber		1D	2D	3D Std	NM CO UT TX
	Marbob Stat				Ac	dress: 3122 National Pa	rks Hwy				110	2	23			07	X			x
Project N	lanager: Ash	lev Giov	engo		Cit	ty, State, Zip: Carlsbad NI	M, 88220	)												
	3122 Nation					one: 575-988-0055							Ana	lysis	and	Met	hod			EPA Program
	e, Zip: Carlsl					mail: agiovengo@ensolu	um com													SDWA CWA RCRA
	75-988-005		COLLO			scellaneous:	diii.com		_											
	giovengo@ei		om			scenaneous.					1.0									Compliance Y or N
Liliali. a	giovengowei	isolulli.c	JULI					-	_	8015	8015			_			ر د			PWSID#
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				Salli	de informati	ion	-	- J	Lah	98	DRO	by 8	y 82	de 3	-	1005	Σ			Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID		Filte	Lab Number	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
16:45	8/16/2024	Soil	1			FS06 - 7'			1						х					
										+										
										-										
										-	-									
	al Instructio		ase CC: cb	urton@e	nsolum.com	, agiovengo@ensolum.co	om, iestr	ella@	Pensolu	m.co	m, bo	deal(	@ens	olun	n.con	n, ch	amilt	on@	ensolur	n.com,
			d authenticity	of this samp	le. I am aware th	at tampering with or intentionally r	mislabeling t	he san	nple locatio	on, date	or tim	e of co	llection	is co	nsidere	d frau	id and r	nay be	grounds fo	r legal action.
State of the second	Brandon Deal_		_			-				-										
n	ed by: (Signatur			119/2024	9:30 ar	Received by: (Signature)	zales	Date 8-	19-24	Time	93	0								nust be received on ice the day they are vg temp above 0 but less than 6 °C on
Relinquish	ed by: (Signatur	e) Jongo		(19-21)	1940	Received by: (Signature)			19.24		940	5			Rece	eived	d on i	ce:	Lab U	se Only N
Relinquish	ed by: (Signatur	e)	Date &	20.24	Time 0415	Received by: (Signature)	ese	Date 8.	20.24	Time	50	0			<u>T1</u>				T2	<u>T3</u>
Relinquish	ed by: (Signatur	re)	Date		Time	Received by: (Signature)		Date		Time					AVG	Ten	np °C	L	1	
Sample Ma	trix: S - Soil, Sd - S	olid, Sg - Slu	idge, A - Aque	ous, O - Oth	er			Cont	ainer Ty	pe: g	- glass	, p - I	ooly/p	olasti					- VOA	
Note: Sam						er arrangements are made. Haz										e clier	nt expe	ense.	The report	t for the analysis of the above

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envirotech Inc.

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

#### **Envirotech Analytical Laboratory**

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 0	05:00	Work Order ID:	E408162
Phone:	(972) 371-5200	Date Logged In:	08/19/24 1	6:25	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/20/24 1	7:00 (0 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cour	<u>ier</u>	
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were al	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		Comment	ts/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e 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	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C		· • • · · · · · <u> </u>	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	· · ·	ners conceica.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	ormation.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		No			
Sample P	<u>reservation</u>					
21. Does	the COC or field labels indicate the samples were pr	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
-	imples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and it	-	NA	Subcontract Lab: NA	A	
				Subcontract Lab. 14	•	
Chent In	<u>istruction</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408169

Job Number: 23003-0002

Received: 8/20/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/26/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Matador Resources, LLC.	Project Name:	Marbob State #2	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	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'	F408169-04A Soil	08/16/24	08/20/24	Glass Jar. 2 oz.



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	8/26/2024 8:39:10AM

#### FS07 - 2' E408169-01

		12400107-01					
Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Anaryte	Result	Limit	Dilui	поп	rrepared	Allalyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: Rk	KS		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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: Rk	KS .		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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV	7		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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM	I		Batch: 2434019
Chloride	102	20.0	1		08/20/24	08/20/24	



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	8/26/2024 8:39:10AM

#### FS08 - 2' E408169-02

		E400103-02					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2434015
Benzene	ND	0.0250	1	1	08/19/24	08/21/24	
Ethylbenzene	ND	0.0250	1	1	08/19/24	08/21/24	
Toluene	ND	0.0250	1	1	08/19/24	08/21/24	
o-Xylene	ND	0.0250	1	1	08/19/24	08/21/24	
p,m-Xylene	ND	0.0500	1	1	08/19/24	08/21/24	
Total Xylenes	ND	0.0250	1	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2434015
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2434027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/20/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/20/24	08/23/24	
Surrogate: n-Nonane		74.5 %	50-200		08/20/24	08/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: .	JM		Batch: 2434019
Chloride	101	20.0	1	1	08/20/24	08/20/24	

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	8/26/2024 8:39:10AM

#### FS05 - 5' E408169-03

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		analyst: RKS	,	Batch: 2434015
Benzene	ND	0.0250	1	08/19/24	08/21/24	Butch: 2 13 1013
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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: JM		Batch: 2434019
Chloride	567	20.0	1	08/20/24	08/20/24	

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	8/26/2024 8:39:10AM

#### SW09 - 0-2' E408169-04

		E400107-04				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS	,	Batch: 2434015
	ND	0.0250	1	08/19/24	08/21/24	Batch: 2434013
Benzene Ethylbenzene	ND 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	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

5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002

Dallas TX, 75240 Project Manager: Ashley Giovengo 8/26/2024 8:39:10AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/2	6/2024 8:39:10AI
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В		P	Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434015-BLK1)							Prepared: 0	8/19/24 Anal	yzed: 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: 0	8/19/24 Anal	yzed: 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: 0	8/19/24 Anal	yzed: 08/20/24
Benzene	2.28	0.0250	2.50	ND	91.2	48-131	•	•	<u> </u>
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: 0	8/19/24 Anal	yzed: 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			
C	0.405		0.500		07.0	70 120			



0.500

0.500

97.0

106

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.485

0.528

 ${\it Surrogate: Bromofluor obenzene}$ 

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/26/20248:39:10AM

Nonhalogenated Organics by EPA 8015D - GRO											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2434015-BLK1)							Prepared: 0	8/19/24 Analy	vzed: 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: 0	8/19/24 Analy	zed: 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: 0	8/19/24 Analy	zed: 08/20/24		
Gasoline Range Organics (C6-C10)	56.8	20.0	50.0	ND	114	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	8/19/24 Analyzed: 08/2	0/24
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			

0.500

0.574

70-130

115

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/26/20248:39:10AM

Danas 1A, 73240		1 Toject Ivianage	1. 710	micy Gloveng	50			0,2	0.39.1011
	Nonha	logenated Or	ganics by	EPA 8015I	O - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434027-BLK1)							Prepared: 0	8/20/24 Anal	yzed: 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: 0	8/20/24 Anal	yzed: 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:	E408168-0	01	Prepared: 0	8/20/24 Anal	yzed: 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:	E408168-0	01	Prepared: 0	8/20/24 Anal	yzed: 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.		Project Name:		arbob State #2	2				Reported:
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Number: Project Manager:		3003-0002 shley Gioveng	go				8/26/2024 8:39:10AM
		Anions	by EPA 3	300.0/9056 <i>A</i>	1				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434019-BLK1)							Prepared: 0	8/19/24 A	nalyzed: 08/20/24
Chloride	ND	20.0							
LCS (2434019-BS1)							Prepared: 0	8/19/24 A	nalyzed: 08/20/24
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2434019-MS1)				Source:	E408159-0	)3	Prepared: 0	8/19/24 A	nalyzed: 08/20/24
Chloride	4250	40.0	250	3320	371	80-120			M4
Matrix Spike Dup (2434019-MSD1)				Source:	E408159-0	)3	Prepared: 0	8/19/24 A	nalyzed: 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
te TX	ceived
	by O
am	3
RCRA	: 12
or N	2/5/2024
s	Received by OCD: 12/5/2024 11:43:25 AM
	5 AM

Client Information Client: Matador Production Company					Invoice Information	n				La	b Us	e On	ly	ly TAT					State	
Client: N	Natador Prod	duction C	ompany			Company: Ensolum LLC		L	ab V	NO#	ŀ		Job	Num	ber		1D 2D 3D Std			NM CO UT TX
	Marbob Stat					Address: 3122 National Parks	Hwy		E408169 2300						03-0002					x
Project N	/lanager: As	hlev Giov	engo			City, State, Zip: Carlsbad NM, 8	38220													
	3122 Natio				4	Phone: 575-988-0055			Γ	Analysis					and	Met	hod			EPA Program
	e, Zip: Carls					Email: agiovengo@ensolum.	com					2-53								SDWA CWA RCRA
	575-988-005					Aiscellaneous:														
	giovengo@e		om			inscending day.				10	10					ŀ				Compliance Y or N
	A.o. C. A.o. C. C	11001011110								8015	8015		-	0			<u>~</u>			PWSID#
-				Sam	ple Inform	ation				DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			
Time	200000000	20.00	No. of		•	Constitute in	0 3	Lab	)	/OR	/DR	k by	by 8	ride	00	100	A 8 1			Remarks
Sampled	Date Sampled	Matrix	Containers			Sample ID	Field	Lab Numb	ber	DRC	GRC	BTE	000	Sho	BGC	TCEC	RCR			
9:41	8/16/2024	Soil	1			FS07 - 2'		1							х					
9:43	8/16/2024	Soil	1			FS08 - 2'		2							x					
11:35	8/16/2024	Soil	1			FS05 - 5'		7	3						х					
15:08	8/16/2024	Soil	1			SW09 - 0-2'		Ц							х					
																		Щ		
bsimmo I, (field sam	ns@ensolun	n.com e validity and				m, agiovengo@ensolum.com,														
M	ed by: (Signatu		Date のも/	14/2024	Time 9:30 a	m Received by: (Signature)	Pate 8	19.2	4	Time	931	6			77.7			-		nust be received on ice the day they are vg temp above 0 but less than 6 °C on
Relinquish Relinquish	ed by (Signato helle G ed by: (Signatu	re) orgal re)	les Date Date	19:24	Time	Received by: (Signature)  Received by: (Signature)  Received by: (Signature)	Date	5.19.	щ	Time					Rec	eive	d on i	ce:	Y/ I	lse Only N
	Relinquished by: (Signature)  Date Tim  Relinquished by: (Signature)  Date  Date			0415 Time	Received by: (Signature)  Received by: (Signature)	Date	20.2	4	Time	500	0			<u>T1</u>				T2	13	
										,							np °C			
Sample Mat	rix: <b>S</b> - Soil, <b>Sd</b> - S	olid, <b>Sg</b> - Slu	dge, A - Aque	ous, O - Oth	er			ntainer												
						her arrangements are made. Hazardo										e clie	nt exp	ense. T	he repor	t for the analysis of the above

8

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

#### **Envirotech Analytical Laboratory**

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 0	05:00	Work	Order ID:	E408169
Phone:	(972) 371-5200	Date Logged In:	08/19/24 1	7:25	Logg	ged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/26/24 1	7:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	e number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: Cor	<u>urier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)			Г			
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C		· • • · · · · · <u> </u>	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·	ners conceica.	105				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?	ormation.	Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
-	imples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and it	-		Subcontract Lab: 1	NA		
				Subcontract Eur.			
Chent In	<u>istruction</u>						

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408186

Job Number: 23003-0002

Received: 8/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/27/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

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

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.



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	8/27/2024 4:40:18PM

#### BH08-5' E408186-01

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2434060
Nonhalogenated Organics by EPA 8015D - GRO Gasoline Range Organics (C6-C10)	mg/kg ND	mg/kg 20.0		Analyst:	RKS 08/22/24	08/22/24	Batch: 2434060
			70-130			08/22/24 08/22/24	Batch: 2434060
Gasoline Range Organics (C6-C10)		20.0			08/22/24		Batch: 2434060
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene		20.0	70-130		08/22/24 08/22/24	08/22/24	Batch: 2434060
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4		20.0 103 % 98.8 %	70-130 70-130		08/22/24 08/22/24 08/22/24 08/22/24	08/22/24 08/22/24	Batch: 2434060  Batch: 2434064
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8	ND	20.0 103 % 98.8 % 106 %	70-130 70-130	1	08/22/24 08/22/24 08/22/24 08/22/24	08/22/24 08/22/24	
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO	ND mg/kg	20.0 103 % 98.8 % 106 % mg/kg	70-130 70-130	1	08/22/24 08/22/24 08/22/24 08/22/24 NV	08/22/24 08/22/24 08/22/24	
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)	ND mg/kg ND	20.0 103 % 98.8 % 106 % mg/kg 25.0	70-130 70-130	1	08/22/24 08/22/24 08/22/24 08/22/24 NV 08/22/24	08/22/24 08/22/24 08/22/24 08/22/24	
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)  Oil Range Organics (C28-C36)	ND mg/kg ND	20.0 103 % 98.8 % 106 % mg/kg 25.0 50.0	70-130 70-130 70-130	1	08/22/24 08/22/24 08/22/24 08/22/24 NV 08/22/24 08/22/24 08/22/24	08/22/24 08/22/24 08/22/24 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 8/27/2024 4:40:18PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/	27/2024 4:40:18PN
	V	olatile Organ	ic Compo	unds by El	PA 82601	В			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434060-BLK1)							Prepared: 0	8/22/24 Ana	lyzed: 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: 0	8/22/24 Ana	lyzed: 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			
Foluene	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: 0	8/22/24 Ana	lyzed: 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: 0	8/22/24 Ana	lyzed: 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			
			0.500		101	<b>50 130</b>			



0.500

104

70-130

0.519

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/27/2024 4:40:18PM

Dallas TX, 75240		Project Manager	:: As	shley Gioveng	go				8/27/2024 4:40:18PI
	Non	halogenated	Organics l	by EPA 80	15D - GI	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434060-BLK1)							Prepared: 0	8/22/24 A	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: 0	8/22/24 A	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:	E408185-0	01	Prepared: 0	8/22/24 A	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:	E408185-0	01	Prepared: 0	8/22/24 A	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			

0.500

0.500

0.478

95.6

108

70-130

70-130



## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/27/2024 4:40:18PM

Dullus 171, 732 10		r roject ivianage	. 710	iney Groveng	-				
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434064-BLK1)							Prepared: 0	8/22/24 Analy	vzed: 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: 0	8/22/24 Analy	zed: 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: 0	8/22/24 Analy	zed: 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: 0	8/22/24 Analy	zed: 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. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		1arbob State #2 3003-0002	2				Reported:
Dallas TX, 75240		Project Manager		shley Gioveng	go				8/27/2024 4:40:18PM
		Anions	by EPA	300.0/9056 <i>A</i>	<b>A</b>				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2434063-BLK1)							Prepared: 0	8/22/24 A	nalyzed: 08/22/24
Chloride	ND	20.0							
LCS (2434063-BS1)							Prepared: 0	8/22/24 A	nalyzed: 08/22/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2434063-MS1)				Source:	E408184-	04	Prepared: 0	8/22/24 A	nalyzed: 08/22/24
Chloride	341	20.0	250	79.8	105	80-120			
Matrix Spike Dup (2434063-MSD1)				Source:	E408184-	04	Prepared: 0	8/22/24 A	nalyzed: 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**

ſ	Matador Resources, LLC.	Project Name:	Marbob State #2	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	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.



Released to Imaging: 3/7/2025 3:22:33 PM

Page	1 of /	
	,	

Client Information					Invoice Information		Lab Use Only							TAT				State					
Client: Matador Production Company						Company: Ensolum LLC			Lab WO# Job Number						1D 2D 3D Std			Std	NM	CO UT	TX		
Project: Marbob State #2						Address: 3122 National Parks Hwy			E408186 23003-00					-00	02			X		X			
						City, State, Zip: Carlsbad NM, 88	220																
Address: 3122 National Parks Hwy						hone: 575-988-0055			Г	Analysis				and	Met	hod				EP	EPA Program		
	e, Zip: Carlsl				_	Email: agiovengo@ensolum.co	m		ı					1							SDWA	CWA	RCRA
	575-988-0055		00220			iscellaneous:	7111													ŀ		211111	11.010%
	giovengo@ei		om			iviiscellaneous:				2	ın									ŀ	Compliance Y or N		
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-				Sam	ple Informa	tion				DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			ł	T WSID #		
Time	No of				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6 L IO			0	/OR	/DR(	( by	by 8	ride	9	100	48 1					Remarks	
Sampled	Date Sampled	Matrix	Containers			Sample ID	Field	Lak Numl	ber	DRO	GRO	вте)	VOC	Chlo	BGD	TCEO	RCR						
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client expense. The report for the analysis of the above samples is

envirotection

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

#### **Envirotech Analytical Laboratory**

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.

Pienes   1971   371   3200   Des Date   1982   1	Client:	Matador Resources, LLC.	Date Received:	08/22/24	05:30	Work Order ID:	E408186
Chain of Custody (COC)	Phone:	(972) 371-5200	Date Logged In:	08/21/24	16:42	Logged In By:	Noe Soto
1. Does the sample ID match the COC 2. Does the number of sampling site location match the COC 48	Email:			08/28/24	17:00 (4 day TAT)		
1. Does the sample ID match the COC 2. Does the number of sampling site location match the COC 48	~ .	10 11 1000					
2. Does the number of samples per sampling site location match the COC 3. Were samples droped off by client or carrier? 4. Was the COC complete, i.e., signaturus, dates times, requested analyses? 5. Were all samples received within holding time? Note Analysis, such as J which shoulds be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.  Sample Turn Around Time (TXM)  5. Did the COC indicate standard TAT, or Expedited TAT?  5. Did the COC indicates standard TAT, or Expedited TAT?  7. Was a sample cooler received?  7. Was a sample cooler received?  8. If yes, was cooler received?  8. If yes, was cooler received?  9. Was the sample received in good condition?  10. Were custody/security seals intact?  11. If yes, were custody/security seals intact?  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 0°2°C Note: Thermal preservation is not required, if samples are received will 5 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature 4°C  15. Are VOC samples collected in VOA Visls?  16. Is the head space less than 6-8 mm (peu sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  19. Is the appropriate volume/weight or number of samples containers collected?  19. Use were field sample labels filled out with the minimum information:  Sample Included For VOC analyses?  19. Lower field sample labels filled out with the minimum information:  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  10. Were field sample habels filled out with the minimum information:  Sample Preservation  22. Lower field sample habels filled out with the minimum information:  Sample Preservation  23. Lower field sample habels filled out with the minimum information:  10. Sample Preservation  11. Lower field sample habels filled out with the minimum information:  12. Lower field sample habels filled out with the minimum information:  13. If no vice the COC or field labels indicate the sam		<u></u>		••			
3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 5. Note: Analysis, such as pH which should be conducted in the field. 1.e. 15 minute hold time, are not included in this dissussion.  Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 8. If yes, was cooler received in good condition? 9. Wes the sample(s) received intact, i.e., not broken? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on itse? If yes, the recorded temp is 4°C, i.e., 6°42°C Not: Thermal preservoire in so for required, if samples are received wii 15 minutes of sampling 13. If no visible i.e., record the temperature. Actual sample temperature: 4°C  Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Visils? 16. Is the head space less than 6-8 mm (pas sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Ar non-VOC samples collected in the correct containers? 19. Is the proprinte volume/weight or number of sample containers collected? 29. Were field sample labels filled out with the minimum information:  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 34. Is lab filleration required and/or requested for dissolved metals? 35. Note the COC or field labels indicate the samples were preserved? 36. Note the COC or field labels indicate the samples were preserved? 37. If yes, does the COC specify which phase(s) is to be analyzed? 38. Note the COC or field specified by the client and if so who? 39. Was a subcontract Laboratory, specified by the client and if so who? 39. Was a subcontract Laboratory, specified by the client and if so who?		•	ch the COC				
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  5. Were all samples received within holding time?  Note Analysis, such as pill within should be conducted in the field.  i.e., 15 minute hold time, are not included in this dissuession.  Samule Turn Around Time (TAT)  6. Did the COC indicate standard TAT, or Expedited TAT?  7. Was a sample cooler received?  7. Was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample spote preceived in good condition?  11. If yes, were custody/security seals present?  10. Were custody/security seals intact?  11. If yes, were custody/security seals intact?  12. Was the sample preceived on it is 10 yes, the recorded lenp is 4°C, i.e., 6°±2°C  Note: Thermal preservation is not required, if samples are received wii 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples persent?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  9 Yes  10. Bate Time Collected?  10. Sample Preservation  11. Does the COC or field labels indicate the samples were preserved?  10. Does the COC or field labels indicate the samples were preserved?  10. No  Multiphase Sample Matrix  20. Were field sample Matrix  21. Lives, does the COC specify which phase(s) is to be analyzed?  22. Are sample(s) correctly preserved?  23. Are samples for equiped and/or requested for dissolved metals?  24. Is all filteration required and/or requested for dissolved metals?  25. Does the sample have more than one phase, i.e., multiphase?  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples to required to get sent to a subcontr			ch the COC				
5. Were all samples received within holding time? Notes Analysis, such as plat which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.  Sample Cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample (s) received intatt, i.e., not broken? 10. Were custody/security seals intact? 12. Was the sample (s) received intatt, i.e., not broken? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wit 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? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a rip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the paperpate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information:  Sample Preservation. 21. Doale Time Collected? 22. Are samples of correctly preserved? 32. Are samples of correctly preserved? 34. An analysic of the sample were preserved? 35. An analysic of the sample have more than one phase, i.e., multiphase? 36. Is the filled table indicate the samples were preserved? 37. If yes, does the COC apecify which phase(s) is to be analyzed? 38. Are annelly preserved? 39. An analysic or the sample have more than one phase, i.e., multiphase? 39. An analysic or service of the correct container of the correct correct the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the correct cortein merity of the co			tad analysas?		Carrier: Courier		
Note: Analysis, such as pH which should be conducted in the field,			ied analyses?				
6. Did the COC indicate standard TAT, or Expedited TAT?  Sample Cooler.  7. Was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample(s) received intact, i.e., not broken?  10. Were custody/security seals present?  11. If yes, were custody/security seals present?  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C  Note: Thermal preservation is not required, if samples are received wii 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?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  19. Is the appropriate volume/weight or number of sample containers?  19. Is the appropriate volume/weight or number of sample containers?  19. Les the COC samples collected in the correct containers?  19. Les the paper prise to volume/weight or number of sample containers collected?  Yes  10. Were field sample labels filled out with the minimum information:  Sample ID?  Date Time Collected?  Yes  COC or field labels indicate the samples were preserved?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  No  22. Are sample(s) correctly preserved?  No  Multiphase Sample Martix  23. Does the COS specify which phase(s) is to be analyzed?  No  Subcontract Laboratory  No  Subcontract Laberatory specified by the client and if so who?  No  Subcontract Laberatory specified by the client and if so who?  No  Subcontract Laberatory specified by the client and if so who?  No  Subcontract Laberatory specified by the client and if so who?  No  Subcontract Laberatory specified by the client and if so who?	Note: Analysis, such as pH which should be conducted in the field,					<u>Comment</u>	s/Resolution
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Signature of client authorizing changes to the COC or sample disposition.

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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# **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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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#### **Sample Summary**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo08/28/24 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.

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	8/28/2024 3:35:09PM

#### FS 14 - 4' E408191-01

		E408191-01				
Apolisto	Result	Reporting Limit	Dilution	Duamanad	Amalyzad	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
o,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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2435068
Chloride	142	20.0	1	08/27/24	08/27/24	

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5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

#### FS 15 - 4' E408191-02

		E-100171-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
•				vst: BA		Batch: 2435067
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Allaly			Batch: 2433007
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		104 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		84.0 %	50-200	08/27/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2435068
Chloride	293	20.0	1	08/27/24	08/27/24	

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	8/28/2024 3:35:09PM

#### FS 16 - 4' E408191-03

		E400171-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	603	20.0	1	08/27/24	08/27/24	

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Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

#### FS 17 - 4' E408191-04

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: BA	<u>-</u>	Batch: 2435067
ND	0.0500	2	08/27/24	08/28/24	
2.63	0.0500	2	08/27/24	08/28/24	
0.368	0.0500	2	08/27/24	08/28/24	
6.54	0.0500	2	08/27/24	08/28/24	
17.1	0.100	2	08/27/24	08/28/24	
23.6	0.0500	2	08/27/24	08/28/24	
	112 %	70-130	08/27/24	08/28/24	
mg/kg	mg/kg	Ana	lyst: BA		Batch: 2435067
307	40.0	2	08/27/24	08/28/24	
	109 %	70-130	08/27/24	08/28/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2435066
7380	50.0	2	08/27/24	08/27/24	
2590	100	2	08/27/24	08/27/24	
	188 %	50-200	08/27/24	08/27/24	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
506	20.0	1	08/27/24	08/27/24	·
	mg/kg  ND 2.63 0.368 6.54 17.1 23.6  mg/kg 307  mg/kg 7380 2590	mg/kg         mg/kg           ND         0.0500           2.63         0.0500           0.368         0.0500           6.54         0.0500           17.1         0.100           23.6         0.0500           112 %           mg/kg         mg/kg           307         40.0           109 %         mg/kg           7380         50.0           2590         100           188 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Anai           ND         0.0500         2           2.63         0.0500         2           0.368         0.0500         2           6.54         0.0500         2           17.1         0.100         2           23.6         0.0500         2           112 %         70-130           mg/kg         mg/kg         Anai           307         40.0         2           109 %         70-130           mg/kg         mg/kg         Anai           7380         50.0         2           2590         100         2           188 %         50-200           mg/kg         Mg/kg         Anai	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0500         2         08/27/24           2.63         0.0500         2         08/27/24           0.368         0.0500         2         08/27/24           6.54         0.0500         2         08/27/24           17.1         0.100         2         08/27/24           23.6         0.0500         2         08/27/24           mg/kg         mg/kg         Analyst: BA           307         40.0         2         08/27/24           mg/kg         mg/kg         Analyst: NV           7380         50.0         2         08/27/24           mg/kg         50-200         08/27/24           mg/kg         mg/kg         Analyst: NV	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0500         2         08/27/24         08/28/24           2.63         0.0500         2         08/27/24         08/28/24           0.368         0.0500         2         08/27/24         08/28/24           6.54         0.0500         2         08/27/24         08/28/24           17.1         0.100         2         08/27/24         08/28/24           23.6         0.0500         2         08/27/24         08/28/24           mg/kg         mg/kg         Analyst: BA           307         40.0         2         08/27/24         08/28/24           mg/kg         mg/kg         Analyst: BA         08/27/24         08/28/24           mg/kg         mg/kg         Analyst: BA         08/27/24         08/28/24           4         109 %         70-130         08/27/24         08/28/24           mg/kg         mg/kg         Analyst: NV         08/27/24         08/27/24           2590         100         2         08/27/24         08/27/24         08/27/24           mg/kg

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#### FS 18 - 4' E408191-05

		E408191-05				
		Reporting	<b>5</b> 11			<b></b>
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	620	20.0	1	08/27/24	08/27/24	

Matador Resources, LLC.	Project Name:	Marbob State #2	
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Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

#### FS 19 - 4' E408191-06

		E400191-00				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
,				nalyst: BA		Batch: 2435067
Volatile Organics by EPA 8021B	mg/kg	mg/kg		-	00/07/04	Batch: 2433007
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	
Surrogate: 4-Bromochlorobenzene-PID		110 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: 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	
Surrogate: n-Nonane		90.1 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2435068
Chloride	422	20.0	1	08/27/24	08/27/24	

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#### FS 20 - 4' E408191-07

		E400191-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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		106 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		83.9 %	50-200	08/27/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	743	20.0	1	08/27/24	08/27/24	

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#### FS 21 - 0' E408191-08

		E408191-08				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		112 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	80.0	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		107 %	50-200	08/27/24	08/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2435068
Chloride	1020	20.0	1	08/27/24	08/27/24	



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FS 22 - 0' E408191-09

		E408191-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		112 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	64.6	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		102 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	2020	40.0	2	08/27/24	08/27/24	

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	8/28/2024 3:35:09PM

FS 23 - 0' E408191-10

		1.400171 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: 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	
oluene	0.0409	0.0250	1	08/27/24	08/28/24	
-Xylene	0.454	0.0250	1	08/27/24	08/28/24	
,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	
iurrogate: 4-Bromochlorobenzene-PID		110 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	33.7	20.0	1	08/27/24	08/28/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2435066
Diesel Range Organics (C10-C28)	5540	50.0	2	08/27/24	08/28/24	
Dil Range Organics (C28-C36)	3630	100	2	08/27/24	08/28/24	
Surrogate: n-Nonane		98.7 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2435068
Chloride	890	20.0	1	08/27/24	08/27/24	



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	8/28/2024 3:35:09PM

#### FS 24 - 0' E408191-11

		E408191-11				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2435068
Chloride	620	20.0	1	08/27/24	08/27/24	



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	8/28/2024 3:35:09PM

#### FS 25 - 0' E408191-12

		E408191-12				
_		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,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	
Surrogate: 4-Bromochlorobenzene-PID		116 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	79.6	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		96.5 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2435068
Chloride	1090	20.0	1	08/27/24	08/28/24	

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	8/28/2024 3:35:09PM

#### FS 26 - 0' E408191-13

		E408191-13				
		Reporting	5.H :			<b>N</b> T.
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		114 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	21.2	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		105 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	1860	20.0	1	08/27/24	08/28/24	

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	8/28/2024 3:35:09PM

FS 27 - 4'

		E408191-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	113	20.0	1	08/27/24	08/28/24	

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	8/28/2024 3:35:09PM

FS 28 - 4' E408191-15

		E400171-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
o,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		106 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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		84.0 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2435068
Chloride	270	20.0	1	08/27/24	08/28/24	



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	8/28/2024 3:35:09PM

FS 29 - 4' E408191-16

		E400191-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
. Ilmi, ve				1	1 11111 ) 200	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	336	20.0	1	08/27/24	08/28/24	

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	8/28/2024 3:35:09PM

#### FS 30 - 4' E408191-17

		E408191-17				
Analyte	Result	Reporting Limit	Dilution	Dronoro d	Analyzed	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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		103 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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		82.8 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2435068
Chloride	231	20.0	1	08/27/24	08/28/24	



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	8/28/2024 3:35:09PM

#### FS 31 - 4' E408191-18

		E408191-18				
Andre	Result	Reporting Limit	Dilution	D d	A la d	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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		82.0 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2435068
Chloride	428	20.0	1	08/27/24	08/28/24	



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	8/28/2024 3:35:09PM

FS 32 - 4' E408191-19

		E400191-19				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
. many te	Tresurv				111111111111111111111111111111111111111	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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		72.9 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435068
Chloride	397	20.0	1	08/27/24	08/28/24	

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	8/28/2024 3:35:09PM

FS 33 - 4' E408191-20

		E400191-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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		103 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2435067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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		84.1 %	50-200	08/27/24	08/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2435068
Chloride	492	20.0	1	08/27/24	08/28/24	

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	8/28/2024 3:35:09PM

#### SW03-0-2'

E408191-21						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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		90.1 %	70-130	08/23/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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		92.9 %	50-200	08/23/24	08/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: WF		Batch: 2434082
Chloride	194	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW04-0-7'

E408191-22						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: WF		Batch: 2434082
Chloride	413	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW05-0-4'

		E408191-23				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2434082
Chloride	97.3	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW06-0-4' E408191-24

		L400171 24				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	08/23/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: n-Nonane		97.8 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: WF		Batch: 2434082
Chloride	ND	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW07-0-4' E408191-25

		E400171-23				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
o,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		90.8 %	70-130	08/23/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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		92.8 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2434082
Chloride	ND	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW08-0-4' E408191-26

		E408191-26				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	0.0309	0.0250	1	08/23/24	08/23/24	
o-Xylene	0.0549	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	0.204	0.0500	1	08/23/24	08/23/24	
Total Xylenes	0.258	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	08/23/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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		94.6 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: WF		Batch: 2434082
Chloride	104	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW10-0-5'

E408191-27						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: WF		Batch: 2434082
Chloride	568	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW11-0-2' E408191-28

		E400191-20				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
				1	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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		90.3 %	70-130	08/23/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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		97.9 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: WF		Batch: 2434082
Chloride	329	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW12-0-4' E408191-29

		E400171 27				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: 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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: 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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: WF		Batch: 2434082
Chloride	336	20.0	1	08/23/24	08/23/24	



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	8/28/2024 3:35:09PM

#### SW13-0-4' E408191-30

	E400171-30				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: CG		Batch: 2434079
ND	0.0250	1	08/23/24	08/23/24	
ND	0.0250	1	08/23/24	08/23/24	
ND	0.0250	1	08/23/24	08/23/24	
ND	0.0250	1	08/23/24	08/23/24	
ND	0.0500	1	08/23/24	08/23/24	
ND	0.0250	1	08/23/24	08/23/24	
	90.2 %	70-130	08/23/24	08/23/24	
mg/kg	mg/kg	Analy	yst: CG		Batch: 2434079
ND	20.0	1	08/23/24	08/23/24	
	102 %	70-130	08/23/24	08/23/24	
mg/kg	mg/kg	Analy	yst: NV		Batch: 2434075
142	25.0	1	08/23/24	08/24/24	
ND	50.0	1	08/23/24	08/24/24	
	92.0 %	50-200	08/23/24	08/24/24	
mg/kg	mg/kg	Analy	yst: WF		Batch: 2434082
112	20.0	1	08/23/24	08/23/24	
	mg/kg ND ND ND ND ND ND ND ND Mg/kg ND mg/kg 142 ND	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0           102 %         mg/kg           mg/kg         mg/kg           142         25.0           ND         50.0           92.0 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           MD         20.0         1           Incomplete         102 %         70-130           Mg/kg         mg/kg         Analy           Mg/kg         mg/kg         Analy           Mg/kg         50-200         1           Mg/kg         Mg/kg         Analy           Mg/kg         Mg/kg         Analy	Reporting           Result         Limit         Dilution         Prepared           mg/kg         Analyst: CG           ND         0.0250         1         08/23/24           ND         0.0250         1         08/23/24           ND         0.0250         1         08/23/24           ND         0.0250         1         08/23/24           ND         0.0500         1         08/23/24           ND         0.0250         1         08/23/24           mg/kg         mg/kg         Analyst: CG           ND         20.0         1         08/23/24           mg/kg         mg/kg         Analyst: NV           142         25.0         1         08/23/24           ND         50.0         1         08/23/24           ND         50.0         1         08/23/24           ND         50.0         1         08/23/24           ND         50.0         1         08/23/24           Mg/kg         Mg/23/24         08/23/24	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: CG           ND         0.0250         1         08/23/24         08/23/24           ND         0.0250         1         08/23/24         08/23/24           ND         0.0250         1         08/23/24         08/23/24           ND         0.0500         1         08/23/24         08/23/24           ND         0.0250         1         08/23/24         08/23/24           ND         0.0250         1         08/23/24         08/23/24           mg/kg         mg/kg         Analyst: CG         08/23/24         08/23/24           mg/kg         mg/kg         Analyst: CG         08/23/24         08/23/24           mg/kg         mg/kg         Analyst: NV         08/23/24         08/23/24           MD         20.0         1         08/23/24         08/23/24           mg/kg         mg/kg         Analyst: NV         08/23/24         08/23/24           MD         50.0         1         08/23/24         08/24/24           ND         50.0         1         08/23/24



#### **QC Summary Data**

Marbob State #2 Matador Resources, LLC. Project Name: Reported: 23003-0002 5400 LBJ Freeway, Suite 1500 Project Number: Dallas TX, 75240 Project Manager: Ashley Giovengo 8/28/2024 3:35:09PM **Volatile Organics by EPA 8021B** Analyst: CG Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2434079-BLK1) Prepared: 08/23/24 Analyzed: 08/23/24 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 o-Xylene ND 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.12 8.00 89.0 70-130

LCS (2434079-BS1)					P	repared: 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	
25				C F100102.01		1.00/02/04

Matrix Spike (2434079-MS1)				Source:	E408193-0	)1	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			8/23/24 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:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/28/2024 3:35:09PM

Dallas TX, 75240		Project Manager:		shley Giovengo	o			8	8/28/2024 3:35:09PM
					Analyst: BA				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435067-BLK1)						I	Prepared: 0	8/27/24 An	alyzed: 08/27/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			
LCS (2435067-BS1)						I	Prepared: 0	8/27/24 An	alyzed: 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)						I	Prepared: 0	8/27/24 An	alyzed: 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	
o,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

Matrix Spike Dup (2434079-MSD2)

46.6

8.16

20.0

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

#### **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/28/20243:35:09PM

Non	halogenated	Organics l	by EPA 80	15D - GI	RO		Analyst: CG		
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
						Prepared: 0	8/23/24 Anal	yzed: 08/23/24	
ND	20.0								
7.66		8.00		95.8	70-130				
						Prepared: 0	8/23/24 Anal	yzed: 08/23/24	
43.8	20.0	50.0		87.6	70-130				
7.86		8.00		98.3	70-130				
			Source:	E408193-0	01	Prepared: 0	8/23/24 Anal	yzed: 08/23/24	
45.3	20.0	50.0	ND	90.6	70-130				
8.19		8.00		102	70-130				
	Result mg/kg  ND  7.66  43.8  7.86	Result   Limit   mg/kg	Result   Limit   Level   mg/kg   mg/	Result	Result   Limit   Level   Result   Rec   mg/kg   mg/kg   mg/kg   mg/kg   %	Result mg/kg         Limit Level mg/kg         Result mg/kg         Rec Limits mg/kg         Limit mg/kg         Rec Minits mg/kg         Limits mg/kg         Rec Minits mg/kg         Limits mg/kg         Result mg/kg         Rec Limits mg/kg         Limits mg/kg         Mg/kg	Result   Limit   Level   Result   Rec   Limits   RPD	Result mg/kg         Reporting Limit Level mg/kg         Spike Result Rec Limits RPD Limit mg/kg         Result mg/kg         Rec Limits RPD Limit RPD Limit RPD Limit RPD RPD Limit RPD RPD Limit RPD RPD RPD RPD RPD RPD RPD RPD RPD RPD	

50.0

8.00

Source: E408193-01

93.1

102

ND

Prepared: 08/23/24 Analyzed: 08/23/24

20

2.73

70-130

70-130

### **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/28/20243:35:09PM

Nonhalogenated	Organics by	v EPA	.8015D -	GRO

Analyst: BA

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

Blank (2435067-BLK1)						Prepared: 08	3/27/24	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	3/27/24 A	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	3/27/24	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 #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/28/20243:35:09PM

Dallas 1A, 73240		Project Manage	r. As	mey Gloveng	30			0/2	28/2024 3.33.09FN	
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO		Analyst: NV		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2434075-BLK1)							Prepared: 0	8/23/24 Anal	yzed: 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: 0	8/23/24 Anal	yzed: 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: 0	8/23/24 Anal	yzed: 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: 0	8/23/24 Anal	yzed: 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**

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

, ,					5-					
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO		Analyst: NV		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2435066-BLK1)							Prepared: 0	8/27/24 Ana	alyzed: 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: 0	8/27/24 Ana	alyzed: 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: 0	8/27/24 Ana	alyzed: 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				

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

	Anions by EPA 300.0/9056A													
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: 0	8/23/24 An	alyzed: 08/23/24					
Chloride	ND	20.0												
LCS (2434082-BS1)							Prepared: 0	8/23/24 An	alyzed: 08/23/24					

Chloride	250	20.0	250		100	90-110			
Matrix Spike (2434082-MS1)				Source: E	408193-03	3	Prepared: 08/2	3/24 Analyzed: 08/	23/24
Chloride	266	20.0	250	ND	107	80-120			
Matrix Spike Dup (2434082-MSD1)				Source: E	408193-03	3	Prepared: 08/2	3/24 Analyzed: 08/	23/24
Chloride	266	20.0	250	ND	106	80-120	0.339	20	

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: 0	8/27/24 Ana	llyzed: 08/27/24	
Chloride	ND	20.0								
LCS (2435068-BS1)						]	Prepared: 0	8/27/24 Ana	lyzed: 08/27/24	

Dimini (2 ideoto BEIII)				110001001001001001001001001001001001001
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**

ſ	Matador Resources, LLC.	Project Name:	Marbob State #2	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	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.

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	Marbob Sta				Address: 3122 National Parks I	lwy	E	E40	38	191		23	003	3-0	002		X		X			APPLE
Project N	lanager: Ash	nley Giov	engo		City, State, Zip: Carlsbad NM, 8	8220																
	3122 Nation			<u>F</u>	Phone: 575-988-0055							Ana	lysis	and	Met	hod				EPA Prog	_	
	e, Zip: Carlsl		88220		Email: agiovengo@ensolum.o	com													SDW	A CWA	F	RCRA
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0750	8/21/24	5		FS	14-41		1							X								
0756	8/21/24	5	1	FS	15 - 41		2							X								
0757	8/21/24	5	1	FS	16-41		3		N					X								
0758	8/21/24	5	1	F5	17 - 4'		4							X								
0802	8/21/24	5	1	F5	18 - 4'		5							X								
0755	8/2//24	5	1	F5 10	i - 4'		6	0						X								
0800	8121/24	5	. 1	F52	0-4'		7	1						X								
0821	8121124	5	1	F5Z	1-0		8							X								
0822	8/21/24	5	1	FS2	Z - O`		9							X								
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	ns@ensolum		authenticity of	f this sample. Lam aware	that tampering with or intentionally mislat	peling the sa	ample loca	ation	date	or time	e of co	llectio	n is co	nsider	ed frau	d and	may be	grounds	for legal ac	tion.		
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Note: Samp	oles are discard	ed 14 days	after results	are reported unless of	her arrangements are made. Hazardo	us samples	s will be	retur	ned t	to clie	nt or	aispo	sea of	at th	e clier	it exp	ense.	me repo	or tor the	analysis of t	ile and	ove

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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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0815	8/21/24	5	1		F5 24	-0'		11							X						
0817	8/21/24	5	(		F5 25	-0"	Y	17	2						X						
0820	8121/24	S	1		F3 26			13	3						X						
0915		5	1		FS 27			14							X						
11/3	8/21/24	5	1		F5 28.			15	5						X						
0923	8/21/24	S			F5 29-			10							X						
	8/21/24	5			FS 30-				7						X						
0931	8/21/24	5	1		F5 31-			18	3						X						
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	trix: S - Soil, Sd - S												poly/plastic, ag - amber glass, v - VOA								
						arrangements are made. Hazardous										e clier	nt exp	ense.	The report	for the analysis o	f the above



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1240	8/21/24	5	1		51	203-0-21		21						Х					
2725	8/21/24	5	1			NO4-0-7'		22						X					
0721	8/21/24	5	1		54	005-0-41		23	5					X					
0731	8/2//24	5	1		Sh	006-0-41		24						X					
0738	8/21/24	5	1		5 4	007-0-41		25						Χ					
0737	8/21/24	5	1		SW	08-0-41		26						X					
0748	8121/24	5	1		Sw	010 - 0-51		27						χ					
1225	8121124	5	-		5 W	11 - 0-2'		28						X					
0745	8/21/24	5	1_		5 W	12-0-41		29						X					
	8121124	5	ı			3-0-41		30						X					
			ase CC: cb	urton@e	nsolum.con	n, agiovengo@ensolum.con	n, chamilton	@ens	olum	.com,	iesti	ella(	@ens	olum	con	n, bdea	@ensc	olum.	com,
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	ed by: (Signatur		Date		Time	Received by: (Signature)	Date		Tin					AVG			*	1	
Sample Mat	rix: S - Soil, Sd - Se	olid, Sg - Slu	dge, A - Aque	ous, O - Othe	r		Conta	iner Ty	/pe: g	- glas	s, p -	poly/	plasti	c, ag -	amb	er glass	v - VO	A ·	



envirotech Inc.

Printed: 8/23/2024 10:31:30AM

## **Envirotech Analytical Laboratory**

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	w	ork Order ID:	E408191
Phone:	(972) 371-5200	Date Logged In:	08/22/24 16	:16	L	ogged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/26/24 17	':00 (1 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comment	s/Resolution
	urn Around Time (TAT)				Visible white	out on CO	C
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Visible wille	out on CO	<b>C.</b>
Sample C							
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C	Container_						
	queous VOC samples present?		No				
15. Are V	OC 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 no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>oel</u>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID? ate/Time Collected?		Yes	L			
	ollectors name?		Yes Yes				
	reservation		103				
	the COC or field labels indicate the samples were pr	reserved?	No				
	imple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
	act Laboratory						
	imples required to get sent to a subcontract laborato	ary?	No				
	subcontract laboratory specified by the client and it	-		Subcontract Lab	·NA		
			1111	docontract Lab	. 1421		
Client Ir	<u>struction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Marbob State #2

Work Order: E408284

Job Number: 23003-0002

Received: 9/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/9/24

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Raina Schwanz

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Client Representative

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## **Sample Summary**

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



Ī	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	9/9/2024 12:03:55PM

## BH04 - 6' E408284-01

		L-100201-01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Anaryte	Resuit	Limit	Dill	ution	Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	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		96.1 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8		101 %	70-130		09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	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		96.1 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8		101 %	70-130		09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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		95.1 %	50-200		09/03/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2436018
Chloride	176	20.0		1	09/03/24	09/04/24	



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	9/9/2024 12:03:55PM

## SW02 - 0-2' E408284-02

	_	Reporting	_			
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2436018
THIONS BY EITH COOLONS OF STREET		2 2				

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	9/9/2024 12:03:55PM

### FS27 - 4.5' E408284-03

		E400204-03					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Allarytt	Result	Limit	Dill	ution	Терагеи	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	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	
Nonhalogenated Organics by EPA 8015D - GRO	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	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2436018
Chloride	75.4	20.0		1	09/03/24	09/04/24	



Matador Resources, LLC. Project Name: Marbob State #2

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	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2436013-BLK1)							Prepared: 0	9/03/24 Anal	yzed: 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: 0	9/03/24 Anal	yzed: 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: 0	9/03/24 Anal	yzed: 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: 0	9/03/24 Anal	yzed: 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			
			0.500			50 120			



0.500

0.500

92.5

100

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.463

0.501

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/9/2024 12:03:55PM

Nonhalogenated Organics by	EPA 8015D - GRO
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Anal	vst.	B

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

	Result	LIIIII	Level	Result	Rec	Limits	KrD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2436013-BLK1)							Prepared: 09	9/03/24 Ana	alyzed: 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	9/03/24 Ana	alyzed: 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			
					T. 400000		<b>D</b> 1.00	2/02/24	
Matrix Spike (2436013-MS2)				Source:	E408282-2	25	Prepared: 09	9/03/24 Ana	alyzed: 09/05/24
Matrix Spike (2436013-MS2) Gasoline Range Organics (C6-C10)	39.8	20.0	50.0	Source:	<b>E408282-2</b>	70-130		9/03/24 Ana	alyzed: 09/05/24
	39.8 0.476	20.0	50.0 0.500				1	9/03/24 Ana	alyzed: 09/05/24
Gasoline Range Organics (C6-C10)		20.0			79.5	70-130	•	9/03/24 Ana	alyzed: 09/05/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene	0.476	20.0	0.500		79.5 95.1	70-130 70-130	•	9/03/24 Ana	alyzed: 09/05/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.476 0.455	20.0	0.500 0.500	ND	79.5 95.1 91.0	70-130 70-130 70-130 70-130			alyzed: 09/05/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.476 0.455	20.0	0.500 0.500	ND	79.5 95.1 91.0 103	70-130 70-130 70-130 70-130	Prepared: 09		•
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2436013-MSD2)	0.476 0.455 0.517		0.500 0.500 0.500	ND Source:	79.5 95.1 91.0 103 <b>E408282-2</b>	70-130 70-130 70-130 70-130 25	Prepared: 09 0.609	9/03/24 Ana	•
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2436013-MSD2) Gasoline Range Organics (C6-C10)	0.476 0.455 0.517		0.500 0.500 0.500	ND Source:	79.5 95.1 91.0 103 <b>E408282-2</b> 80.0	70-130 70-130 70-130 70-130 25 70-130	Prepared: 09 0.609	9/03/24 Ana	•



Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/9/2024 12:03:55PM

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	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2436008-BLK1)							Prepared: 0	9/03/24 Ana	lyzed: 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: 0	9/03/24 Ana	lyzed: 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: 0	9/03/24 Ana	lyzed: 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: 0	9/03/24 Ana	lyzed: 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			

Chloride

Chloride

Matrix Spike Dup (2436018-MSD1)

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number Project Manager	: 2	Marbob State #2 3003-0002 Ashley Gioveng					<b>Reported:</b> 9/9/2024 12:03:55PM
L		Anions	by EPA	300.0/9056 <i>A</i>	1				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
Blank (2436018-BLK1)							Prepared: 0	9/03/24 Aı	nalyzed: 09/04/24
Chloride	ND	20.0							
LCS (2436018-BS1)							Prepared: 0	9/03/24 Aı	nalyzed: 09/04/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2436018-MS1)				Source:	E408283-	03	Prepared: 0	9/03/24 Aı	nalyzed: 09/04/24

250

250

20.0

20.0

768

768

101

102

Source: E408283-03

80-120

80-120

0.0865

Prepared: 09/03/24 Analyzed: 09/04/24

20

1020

1020

#### 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**

ſ	Matador Resources, LLC.	Project Name:	Marbob State #2	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	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.



e	cerve
TX	ecewea by OCD:
am	<i>b</i> :
RCRA	5
or N	2/3/2024
	11:45:23
	2

Company   Ensolum LLC   Address: 3122 National Parks Hwy   City, State, Zip: Carlsbad NM, 88220   Phone: 575-988-0055   Email: agiovengo@ensolum.com   Miscellaneous:   Sample Information   State Street   Sample Information   Sample Inform		Clier	nt Inform	ation		Invoice Informat	ion			La	b Us	e On	ly				TA	T		State
Address: 3122 National Parks Hwy   EVA 2802   23003-0005   X   X   X   X   X   X   X   X   X	Client: N	1000000	CHARLES AND A CO.	100000000000000000000000000000000000000		Company: Ensolum LLC		Lab	WO#	#		Job 1	Vuml	ber		1D	2D	3D S	td	NM CO UT TX
Olect Manager. Ashley Glovenso discress 312 Marinon Farks they  V. State. Zip: Carlshad NM, 88220  NM State. Zip: Carlsha				SHIPGHY			ks Hwy	_   E	409	128	4	23	003	3-0	002			X		X
Additional Instructions: Please CC: churton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, isstrelia@ensolum.com, bdeal@ensolum.com, segments to the validay and adheritory of biosample. Jam aware that tampering with or inancincully michaeling the sample location, date or time of collection in considerate fraudient presentation must be received on to the 4-pth for presentation.    Post				engo																
In State City Compliance of the sample Information  Sample Information  Information  Sample Information  Informa												Ana	lysis	and	Met	hod				EPA Program
Miscellaneous:  Sample Information  Sample Information  Sample ID						Email: agiovengo@ensolur	m.com													SDWA CWA RCRA
Sample Information  Sample ID  Sa		The state of the s		00220																
Sample Information  Time  Date Sampled Matrix  Sample Information  BHOY - G'  Sample Information  Information  Remarks  Re				om					5	5							( (			Compliance Y or N
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, spirmonso@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsirmonso@ensolum.com    Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, spirmonso@ensolum.com    Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, spirmonso@ensolum.com, bdeal@ensolum.com, bdeal@ensolum.co	Lilian. u	giovengoese	no oranne	<u> </u>					801	/ 801	н		0.0	-	×	sle				PWSID#
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, spirmonso@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsirmonso@ensolum.com    Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, spirmonso@ensolum.com    Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, spirmonso@ensolum.com, bdeal@ensolum.com, bdeal@ensolum.co					Sample Info	rmation			30 by	30 b)	807	8260	e 300	NZ-	05 - T	Met				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, of complete control in	Time Sampled	Date Sampled	Matrix			Sample ID	Field	Lab Numbe	DRO/O	GRO/D	втех ь	VOCby	Chlorid	верос	TCEQ 10	RCRA 8				Remarks
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, of complete control in	0655	8124174	S	١	Вн	04-61		1						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, of complete control in	1245	8/29/24	5	1	Sh	102-0-21		2						X						9
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, iestrella@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, sistering.com, of complete control in	(11)		5	1	F5:	27-4.5'		3						X						
(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.    Ample   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.    Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
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Received by: (Signature)  Date  Time  Received by: (Signature)  Received by: (Signature)  Date  Time  AVG Temp °C  AVG Temp °C  Notes: Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days  Lab Use Only  Received on ice:  Y / N  Time  AVG Temp °C  AVG Temp °C  AVG Temp °C  Notes: 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	bsimmo	ons@ensolur npler), attest to th	n.com ne validity an																	
Relinquished by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  Received by: (Signature)  Date  Time  AVG Temp °C  AVG Temp °C  AVG Temp on the start of the analysis of the above of the analysis of the above of the analysis of the above of the start of the analysis of the above of the analysis of the analysis of the above of the analysis of	Relinquis	hed by: (Signatu	ure)	8130		Received by: (Signature)		30.24	Tim Tim U	80	16			samp	led or re	eceived lavs	packed	in ice at a	un av	rg temp above 0 but less than 6 °C on
Nexts (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	ck.	91.		Date Date	Time VY	00 Kudya K HE	Date		Tim	ie								1		T3
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	Sample M	atrix: S - Soil, Sd -	Solid, Sg - Sl	udge, A - Aqueou	us, O - Other		Con	tainer T	ype: g	- glas	s, p -	poly/	plasti	ic, ag	- am	ber g	lass, v	v - VOA		
	Note: Sar	mples are discar	ded 14 day	ys after results	are reported unle	ss other arrangements are made. Haza	ardous samples	will be re	eturne	d to cli	ent or	dispo	sed o	f at th	ne clie	nt exp	ense.	The rep	ort	for the analysis of the above

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#### **Envirotech Analytical Laboratory**

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:		17:00 (4 day TAT)		88	
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: Co	<u>ourier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	l samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comments	s/Resolution
Campula T	i.e, 15 minute hold time, are not included in this disucssion.	on.		Г		Comment	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	urn Around Time (TAT)  COC indicate standard TAT, or Expedited TAT?		Yes				
	•		168				
Sample C	ample cooler received?		Yes				
	was cooler received in good condition?						
•	<del>-</del>		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	<u>ontainer</u>						
14. Are ac	queous VOC samples present?		No				
15. Are V	OC 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 no	on-VOC samples collected in the correct containers:	?	Yes				
19. Is the a	ppropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>el</u>						
	field sample labels filled out with the minimum info	rmation:					
	imple ID?		Yes				
	ate/Time Collected?		Yes	-			
	ollectors name?		Yes				
	reservation the COC or field labels indicate the samples were pr	acarvad?	No				
	mple(s) correctly preserved?	escived:	NA				
	filteration required and/or requested for dissolved m	netalc?	No				
	•	ictais:	NU				
	se Sample Matrix						
	the sample have more than one phase, i.e., multiphase		No				
27. If yes,	does the COC specify which phase(s) is to be analy	/zed?	NA				
Subcontr	act Laboratory						
28. Are sa	mples required to get sent to a subcontract laborator	ry?	No				
29. Was a	subcontract laboratory specified by the client and if	f so who?	NA	Subcontract Lab:	: NA		
Client In	<u>struction</u>						

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

_				
Γ	Matador Resources, LLC.	Project Name:	Marbob State #2	Reported:
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	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.



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	9/25/2024 3:11:41PM

## SS10 - 0' E409165-01

Prepared	Analyzed	Notes
st: IY		Batch: 2438117
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/25/24	
09/19/24	09/23/24	
09/19/24 st: IY	09/23/24	Batch: 2438117
	09/25/24	Batch: 2438117
st: IY		Batch: 2438117
09/19/24	09/25/24	Batch: 2438117
09/19/24 09/19/24	09/25/24 09/25/24	Batch: 2438117
09/19/24 09/19/24 09/19/24	09/25/24 09/25/24 09/25/24	Batch: 2438117  Batch: 2438127
09/19/24 09/19/24 09/19/24 09/19/24	09/25/24 09/25/24 09/25/24	
09/19/24 09/19/24 09/19/24 09/19/24 09/19/24 st: AF	09/25/24 09/25/24 09/25/24 09/25/24	
09/19/24 09/19/24 09/19/24 09/19/24 st: AF 09/19/24	09/25/24 09/25/24 09/25/24 09/25/24 09/25/24	
09/19/24 09/19/24 09/19/24 09/19/24 st: AF 09/19/24 09/19/24	09/25/24 09/25/24 09/25/24 09/25/24 09/24/24 09/24/24	
3	t: IY 09/19/24 09/19/24 09/19/24 09/19/24 09/19/24 09/19/24 09/19/24	t: IY  09/19/24 09/25/24  09/19/24 09/25/24  09/19/24 09/25/24  09/19/24 09/25/24  09/19/24 09/25/24  09/19/24 09/25/24  09/19/24 09/25/24  09/19/24 09/25/24  09/19/24 09/25/24



Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/25/20243:11:41PM

Result   Limit   Level   Result   Rec   Limits   RPD   Limit   RPD   Limit   RPD   Limit   RPD   Rec   Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			9	/25/2024 3:11:41PM	
Result		V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Prepared: 09/19/24   Analyzed: 09/25/24	Analyte	Result		-		Rec		RPD		
Service   ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Property   Property	Blank (2438117-BLK1)						I	Prepared: 09	9/19/24 Ana	alyzed: 09/25/24
Toluene	Benzene	ND	0.0250							
ND   0.0250   ND   0.0500	Ethylbenzene	ND	0.0250							
ND   0.0550   ND   0.0250	Toluene	ND	0.0250							
ND	o-Xylene	ND	0.0250							
Surrogate: Bromofluorobenzene   0.518   0.300   104   70-130	p,m-Xylene		0.0500							
National Control Con	Total Xylenes	ND	0.0250							
Compare   Tolunne-d8	Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Prepared: 09/19/24   Analyzed: 09/25/24	Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Benzene   2.33   0.0250   2.50   93.1   70-130	Surrogate: Toluene-d8	0.528		0.500		106	70-130			
City   Decision   City   Dec	LCS (2438117-BS1)						F	Prepared: 09	9/19/24 Ana	alyzed: 09/25/24
Toluene 2.32 0.0250 2.50 92.7 70-130	Benzene	2.33	0.0250	2.50		93.1	70-130			
2.29   0.0250   2.50   91.7   70-130	Ethylbenzene	2.32	0.0250	2.50		92.9	70-130			
A.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: Toluene-d8   0.528   0.500   106   70-130     Surrogate: Toluene-d8   0.528   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     Day Sylene   2.37   0.0250   2.50   95.0   70-130   3.49   27     Day Sylene   4.71   0.0500   5.00   94.2   70-130   3.49   27     Day Sylene   7.08   0.0250   7.50   94.4   70-130   3.16   27     Surrogate: Bromofluorobenzene   0.526   0.500   105   0.500   105   0.500   105   0.500	Toluene	2.32	0.0250	2.50		92.7	70-130			
Total Xylenes   6.86   0.0250   7.50   91.5   70-130	o-Xylene		0.0250	2.50		91.7	70-130			
Surrogate: Bromofluorobenzene   0.522   0.500   104   70-130	p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4 0,489 0,500 97.8 70-130	Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Comparison   Com	Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Prepared: 09/19/24   Analyzed: 09/25/24	Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
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 o,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: Toluene-d8	0.528		0.500		106	70-130			
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         5-Xylene       2.37       0.0250       2.50       95.0       70-130       3.49       27         5-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       70-130	LCS Dup (2438117-BSD1)						I	Prepared: 09	9/19/24 Ana	alyzed: 09/25/24
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         0-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       70-130	Benzene	2.35	0.0250	2.50		94.0	70-130	0.919	23	
0-Xylene 2.37 0.0250 2.50 95.0 70-130 3.49 27 0.07-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	Ethylbenzene	2.34	0.0250	2.50		93.5	70-130	0.579	27	
o.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	Toluene	2.33	0.0250	2.50		93.0	70-130	0.323	24	
Total Xylenes         7.08         0.0250         7.50         94.4         70-130         3.16         27           Surrogate: Bromofluorobenzene         0.526         0.500         105         70-130         -         -         -         70-130         -<	o-Xylene	2.37	0.0250	2.50		95.0	70-130	3.49	27	
Surrogate: Bromofluorobenzene 0.526 0.500 105 70-130	o,m-Xylene	4.71	0.0500	5.00		94.2	70-130	2.99		
······································	Total Xylenes	7.08	0.0250	7.50		94.4	70-130	3.16	27	
Surrogate: 1,2-Dichloroethane-d4 0.485 0.500 97.0 70-130	Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
	Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			

0.500

103

70-130

0.515



Surrogate: Toluene-d8

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/25/20243:11:41PM

Nonhalogenated	Organics by	<b>EPA</b>	.8015D -	GRO

Analyst: IY

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

Blank (2438117-BLK1)						Prepared: 09	9/19/24 An	alyzed: 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	9/19/24 An	alyzed: 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	9/19/24 An	alyzed: 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			



Surrogate: n-Nonane

## **QC Summary Data**

Matador Resources, LLC.Project Name:Marbob State #2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo9/25/2024 3:11:41PM

Danas 1A, 73240		Froject Manager	. As	siliey Glovelig	30				7/23/2024 3.11.411 N
	Nonha	logenated Org	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2438127-BLK1)							Prepared: 0	9/19/24 An	alyzed: 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: 0	9/19/24 An	alyzed: 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: 0	9/19/24 An	alyzed: 09/24/24
Diesel Range Organics (C10-C28)	224	25.0	250		89.6	38-132	3.72	20	

50.0

103

50-200

51.7

Matrix Spike Dup (2438136-MSD1)

Chloride

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 23	arbob State #2 8003-0002 shley Gioveng					<b>Reported:</b> 9/25/2024 3:11:41PM
Danas 1A, /3240				300.0/9056A	,				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2438136-BLK1)							Prepared: 0	9/20/24 A	nalyzed: 09/20/24
Chloride	ND	20.0							
LCS (2438136-BS1)							Prepared: 0	9/20/24 A	nalyzed: 09/20/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2438136-MS1)				Source:	E409166-	06	Prepared: 0	9/20/24 A	nalyzed: 09/20/24
Chloride	352	20.0	250	96.9	102	80-120			

250

20.0

Source: E409166-06

105

80-120

1.94

#### 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.



Prepared: 09/20/24 Analyzed: 09/20/24

20

## **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.



Page	of 1

	Clie	nt Inform	ation			Invoice Information					La	b Us	e Or	ıly				TA	Т	State	
Client: N	Natador Proc	luction C	ompany			Company: Ensolum LLC			Lab \	WO#			Job	Num	ber		1D	2D	3D Sto	NM CO UT TX	
Project:	Marbob Sta	ate #2				Address: 3122 National Parks H	lwy		EU	100	111	05.	23	5003	3.00	200			X	X	
Project N	Aanager: As	hley Giov	engo			City, State, Zip: Carlsbad NM, 8	8220		1		-			7-12-5							
Committee of the second	3122 Natio					Phone: 575-988-0055							Ana	lysis	and	Met	hod			EPA Program	
City, Stat	e, Zip: Carls	bad NM.	88220			Email: agiovengo@ensolum.c	om													SDWA CWA R	CRA
	575-988-005					Miscellaneous:	0111														35,944,15
	giovengo@e		om			viiscenarie ous.														Compliance Y or	· N
Littaii. a	<u> Hioverigoe e</u>	noordinic	0111							801	801			0			S			PWSID#	10000
				Sam	ple Inform	ation				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			1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Time	Date Consoled	i e a a a constituit de la constituit de	No. of			Commis ID	D	La	b	NO/OR	J/DR	X by	by 8	ride	000	100	A 8 P			Remarks	
Sampled	Date Sampled	Matrix	Containers			Sample ID	윤	La Num	ber	DRC	GRC	BTE	00	Cho	BGD	TCEC	RCR				
8:21	9/17/2024	S	1			SS10 - 0'		1							х						
									_ 1												
bsimmo	ns@ensolum	n.com				m, agiovengo@ensolum.com,	N. Committee					Vecence								•	
			authenticit	y of this sam	ple. I am aware	that tampering with or intentionally mislab	eling the sa	ample lo	cation,	, date	or time	e of co	llectio	n is co	nsider	ed frau	ıd and	may be	grounds fo	or legal action.	
Sampled by	ed by: (Signatu		Date		Time	Received by: (Signature)	Date			Time				- 3	Sampl	es reau	iring th	ermal pr	eservation r	nust be received on ice the day they	/ are
Nemiquisii	eu by. Signatu	-	10.00	-18-24	7:50	Received by: (Signature)	lec G	18	14	D	727	Λ			A		7.1			vg temp above 0 but less than 6 °C o	
Polinguirt	ed by: (Signatu	ral	Date		Time Time	Received by: (Signature)	Date	100	-	Time	100		-		subser	nuent d	avs		Labil	Iso Only	
111:0	P.M. G	and of	es 9.	1824	1600	A. H.	9	.18.	24	1	73	00			Rec	eived	d on i	ce:	(V)	se Only N	
1.	ed by: (Signatu		Date Q.	1824	233	Received by/Signature	9	19.0	24	8:	00	)			<u>T1</u>			<b>-</b> /,	T2	<u>T3</u>	
	ed by: (Signatu		Date		Time	Received by: (Signature)	Date	ataina-	Tres	lime	alass		201:11	oloct:			np °C		V/C) A		
	rix: <b>S</b> - Soil, <b>Sd</b> - S						10000	ntainer			-						7.	A CONTRACT		- Mills and a second a second and a second a	
						ther arrangements are made. Hazardou										e cliei	nt exp	ense.	ne repor	t for the analysis of the abou	ve .

envirotech Inc.

Printed: 9/19/2024 9:02:12AM

## **Envirotech Analytical Laboratory**

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 a	f Custody (COC)					
			37			
	the sample ID match the COC? The number of samples per sampling site location mat	ch the COC	Yes			
	samples dropped off by client or carrier?	on the coc	Yes Yes	Comion Courier		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier: <u>Courier</u>		
	all samples received within holding time?	ned undry ses.	Yes			
3. Wele	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		103		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La						
•	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved m	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborator	ry?	No			
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab: NA		
Client I	nstruction					
<u>Chent i</u>	nstruction .					

Date

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



# **APPENDIX F**

NMOCD Correspondence

From: <u>Hamlet, Robert, EMNRD</u>

To: Ashley Giovengo; 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: <u>image006.png</u>

image007.png image008.png

### [ \*\*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

http://www.emnrd.state.nm.us/OCD/



**From:** Ashley Giovengo <agiovengo@ensolum.com>

**Sent:** Thursday, May 30, 2024 10:39 AM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>

**Cc:** Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>; Brandon Deal <bde>
<br/>
bdeal@ensolum.com>

Subject: [EXTERNAL] Extension Request - Marbob State #2 - Incident Number nAPP2406626875

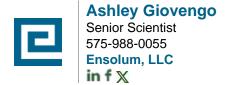
CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

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,



"Your authenticity is your superpower." - Unknown

From: <u>Hamlet, Robert, EMNRD</u>

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: <u>image006.png</u>

image007.png image008.png

# [ \*\*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

http://www.emnrd.state.nm.us/OCD/



From: Ashley Giovengo <agiovengo@ensolum.com>

**Sent:** Monday, August 26, 2024 9:26 AM

**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>

**Cc:** Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>

Subject: [EXTERNAL] Extension Request - Marbob State #2 - Incident Number nAPP2406626875

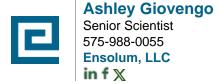
CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

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,



"Your authenticity is your superpower." – Unknown

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

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:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320630
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

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	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.	

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

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, Page 2

Action 320630

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	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:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320630
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

### **ACKNOWLEDGMENTS**

V	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.	
V	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.	
✓	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.	
✓	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.	
V	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.	
V	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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**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:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre Dallas, TX 75240	Action Number: 320630
	Action Type:  [NOTIFY] Notification Of Release (NOR)

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	
hannala na agus na d (if lina agus)	
barrels recovered (if known) 40	
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)		
baireis recovered (ii 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

	7
Impacted Soil	
Saturated Soil (inches)	
	<u>1</u>
01	-
Standing fluids	<u> </u>
Standing fluids inches of standing fluid	-
inches of standing fluid	0
bbl estimate of standing fluids	_
barrels recovered (if known)	
	<u>0</u>
Soil type	
pad caliche	<mark>-</mark>
Spill type	_
oil(crude)	
Barrel estimate in soil	
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:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320812
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

Prerequisites	
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

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	or 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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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 

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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 320812

QUESTI	ONS (continued)
Operator:  MATADOR PRODUCTION COMPANY  One Lincoln Centre	OGRID: 228937 Action Number:
Dallas, TX 75240	320812 Action Type: [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	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.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman

Email: clinton.talley@matadorresources.com

Date: 03/06/2024

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

QUESTIONS, Page 3

Action 320812

OUFS	<b>FIONS</b>	(continued	١
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Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320812
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

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.	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	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.	

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

CONDITIONS

Action 320812

# **CONDITIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320812
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

Created I	By Condition	Condition Date
scwell	s None	3/6/2024

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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 370768

# **QUESTIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370768
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

CONDITIONS

Action 370768

# CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370768
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

QUESTIONS

Action 370769

## **QUESTIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370769
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

CONDITIONS

Action 370769

# CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370769
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

QUESTIONS

Action 370771

## **QUESTIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370771
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

CONDITIONS

Action 370771

# CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370771
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

QUESTIONS

Action 370772

# **QUESTIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370772
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

CONDITIONS

Action 370772

# CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370772
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

QUESTIONS

Action 370777

# **QUESTIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370777
l l	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

CONDITIONS

Action 370777

# **CONDITIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370777
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

District III

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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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 374833

## **QUESTIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	374833
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 374833

# CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	374833
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

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

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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 377524

# **QUESTIONS**

Operator	e e e e e e e e e e e e e e e e e e e	OGRID:
	MATADOR PRODUCTION COMPANY	228937
	One Lincoln Centre	Action Number:
	Dallas, TX 75240	377524
		Action Type:
		[NOTIFY] Notification Of Sampling (C-141N)

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

CONDITIONS

Action 377524

# **CONDITIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	377524
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touche	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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 408978

# **QUESTIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	408978
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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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# 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 408978

QUESTIONS (continued)

QUESTI	ions (continued)	
Operator:	OGRID:	
MATADOR PRODUCTION COMPANY One Lincoln Centre	228937 Action Number:	
Dallas, TX 75240	408978	
	Action Type:	
	[C-141] Deferral Request C-141 (C-141-v-Deferral)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury. T	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
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 rule 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 returned to CDD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, sule 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 local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/05/2024	

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Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 408978

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	408978
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 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

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	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	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	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	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 408978

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	408978
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

#### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Yes	
What is the name of the NMED facility	R360	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: Jason Touchet Title: EHS Field Rep

Email: jason.touchet@matadorresources.com

Date: 12/05/2024

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.

MATADOR PRODUCTION COMPANY

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Operator:

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

QUESTIONS, Page 5

Action 408978

**QUESTIONS** (continued)

OGRID:

228937

One Lincoln Centre Dallas, TX 75240	Action Number: 408978
Bullad, 177 102 10	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each	of the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	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
	diately under or around production equipment such as production tanks, wellheads and pipelines where on may be deferred with division written approval until the equipment is removed during other operations, or when
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
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/05/2024

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

QUESTIONS, Page 6

Action 408978

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	408978
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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

CONDITIONS

Action 408978

#### **CONDITIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	408978
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

Created B	y 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