

March 19, 2025

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

## Re: Closure Request Ray State Slot 4 Incident Number nAPP2417872718 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Ray State Slot 4 (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a leak on a minion tank during fracking operations. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2417872718.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 01, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.2524342°, -104.03408°) and is associated with oil and gas exploration and production operations on private land.

On June 26, 2024, a leak on a minion tank developed resulting in the release of 16 barrels (bbls) of produced water on pad. A vacuum truck was immediately dispatched to recover standing fluid; 8 bbls were recovered. Matador submitted a Release Notification Form C-141 (C-141) on July 1, 2024. The Form C-141 can be referenced on the New Mexico Oil Conservation Division (NMOCD) Portal.

## 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). 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 C-03615 POD1, located approximately 0.63 miles southeast of the Site. The well had a reported depth to groundwater of 36 feet below ground surface (bgs). All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

Matador Production Company Ray State Slot 4 Closure Request

## E ENSOLUM

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 420 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

On September 5, September 6, and September 19, 2025, Ensolum personnel conducted soil sampling around the Site to assess the presence or absence of naturally occurring chloride in undisturbed soil horizons. A total of seven background samples (BG01 through BG07) were collected in areas that did not appear to be disturbed by oil and gas operations and at depths ranging from ground surface to 18 feet bgs. Background soil samples BG01 and BG02 were excluded from background averages as they were only collected at ground surface. Background soil sample locations are presented on Figure 2. Naturally occurring chloride and pad construction discussion is included in correspondences with the NMOCD in Appendix E.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chainof-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-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. Field screening results and lithologic observations were logged on lithologic soil sampling logs, which are included in Appendix B.

NMOCD approved a naturally occurring chloride concentration limit, via email on January 28, 2025, of vertical delineation of chloride concentrations that meet 1,118 mg/kg, excavation of unnaturally high chloride (elevated chloride concentrations in conjunction with elevated TPH concentrations), and 100 mg/kg TPH for floor samples, and a concentration of 1,690 mg/kg for chloride and 100 mg/kg for TPH in sidewall confirmation samples at the Site (see Appendix E). These concentrations were utilized to laterally and vertically delineate the release in lieu of 600 mg/kg.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On August 23, August 27 through August 30, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Preliminary soil samples SS01 through SS03 were collected at ground surface to assess the lateral extent of the release area. Nine potholes (PH01 through PH09) were advanced within the release extent to assess the vertical extent of impacted soil; pothole PH04 was advanced to a depth of 1-foot bgs, potholes PH02 and PH03 were advanced to a depth of 7 feet bgs, pothole PH05 was advanced to a depth of 10 feet

## E ENSOLUM

bgs, pothole PH06 was advanced to a depth of 11 feet bgs, pothole PH08 was advanced to a depth of 12 feet bgs, pothole PH01 was advanced to a depth of 15 feet bgs, and potholes PH07 and PH09 were advanced to a depth of 16 feet bgs.

The preliminary soil samples and boreholes were field screened for chloride and TPH utilizing Hatch<sup>®</sup> QuanTab<sup>®</sup> chloride test strips and a PetroFLAG<sup>®</sup> Soil Analyzer System, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3. Photographs from delineation and excavation activities can be referenced in the Photolog in Appendix C. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chainof-custody procedures to Envirotech for analysis of BTEX, TPH, and chloride.

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

Beginning on February 24, through February 27, 2025, impacted and waste containing soil was excavated from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a frontend loader, track hoe, and belly dump trucks. To direct excavation activities, Ensolum personnel screened soil for chloride and TPH utilizing the processes described above.

A confirmation sampling variance request was submitted on December 18, 2024, to increase the sampling area to every 400 square feet from the floor of the excavation and every 200 square feet from the sidewalls of the excavation, where applicable. The confirmation sampling variance request was approved via email on January 28, 2025 (see Appendix E).

Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 400 square feet from the floor 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. Composite soil samples FS01 through FS56 were collected from the floor of the excavation ranging in depth from 1-foot bgs to 4 feet bgs and sidewall soil samples SW01 through SW05 were collected from the excavation sidewalls representing no more than 200 square feet ranging in depth from ground surface to 4 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 4.

The final excavation extent measured approximately 22,400 square feet. A total of approximately 1,580 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land, LLC in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS03 were all in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results for potholes PH04 indicated all COCs were in compliance with the strictest Closure Criteria per NMOCD Table I at 1-foot bgs, 6 feet bgs in potholes PH02 and PH03, 8 feet bgs in pothole PH05, 10 feet bgs in pothole PH06. Laboratory analytical results for potholes PH07 and PH09 indicated that concentrations for benzene, BTEX, and TPH were in compliance with the strictest Closure Criteria per NMOCD Table I and with the chloride variance at 12 feet bgs, 11 feet bgs in pothole PH01, and 8 feet bgs in pothole PH01.

Matador Production Company Ray State Slot 4 Closure Request

## E ENSOLUM

Laboratory analytical results for excavation floor soil samples FS01 through FS56 and sidewall samples SW01 through SW05 indicated concentrations for benzene, BTEX, and TPH were compliant with the Site Closure Criteria per NMOCD Table I and all gross chloride (elevated chloride with elevated TPH) impacts were excavated at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results are summarized in Tables 1, 2, 3, and 4, and the complete laboratory analytical reports are included as Appendix D.

## **CLOSURE REQUEST**

The release extent has been laterally defined in accordance with the approved naturally occurring chloride variance by sidewall soil samples SW01 through SW05, collected at depths ranging from ground surface to 4 feet bgs, and vertically by potholes PH01 through PH09. Excavation of impacted soil was completed, and excavation floor samples FS01 through FS56, collected at depths ranging from 1-foot bgs to 4 feet bgs were all excavated to remove gross chloride impacts. Gross impacts are chloride concentrations above 600 mg/kg associated with elevated TPH; those concentrations associated with elevated TPH have been removed. Sidewall sample SW01 exceeds approved chloride variance for sidewall samples; however, SW01 was collected at depths ranging from 0-1.5 feet bgs, which appears to be more indicative of the other naturally occurring chloride results observed at the Site and does comply with the approved floor sample variance and is within the naturally occurring chloride concentrations range.

Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2417872718.

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

Sincerely, Ensolum, LLC

Chad Hamilton Project Geologist

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

Matador Production Company Ray State Slot 4 Closure Request

## Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Background Soil Sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Background Soil Samples)
Tabe 3	Soil Sample Analytical Results (Excavation Soil Samples)
Table 4	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Referenced Well Records
Appendix B	Lithologic / Soil Sampling Logs

- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications

## E ENSOLUM



# **FIGURES**

Received by OCD: 3/21/2025 12:00:16 AM

Page 7 of 432



### Received by OCD: 3/21/2025 12:00:16 AM

2



Matador Production Company

Ray State Slot 4

Incident Number: nAPP2417872718 Unit A, Section 01, T24S, R28E Eddy County, New Mexico

Released to Imaging: 4/21/2025 3:13:23 PM

Environmental, Engineering and Hydrogeologic Consultants

ENSOLUM



### Received by OCD: 3/21/2025 12:00:16 AM





# TABLES



TABLE 1   SOIL SAMPLE ANALYTICAL RESULTS   Ray State Slot 4   Matador Production Company   Eddy County, New Mexico												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	1,118		
				Delin	eation Soil San	nples	•	·				
PH01	8/23/2024	0	< 0.0250	< 0.0500	<20.0	91.4	114	91.4	205	25,700		
PH01	8/23/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,580		
PH01	8/23/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,040		
PH01	8/23/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	587		
PH01	8/23/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,760		
PH01	8/23/2024	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,020		
PH01	8/27/2024	13	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	678		
PH01	8/27/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	638		
PH02	8/27/2024	0	<0.0250	< 0.0500	<20.0	85.3	63.2	85.3	149	2,790		
PH02	8/27/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,730		
PH02	8/27/2024	4	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,590		
PH02	8/27/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	400		
PH02	8/27/2024	7	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	308		
PH03	8/27/2024	0	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	905		
PH03	8/27/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,030		
PH03	8/27/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	927		
PH03	8/27/2024	6	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	310		
PH03	8/27/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	377		
PH04	8/28/2024	0	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	870		
PH04	8/28/2024	1	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	472		
PH05	8/28/2024	0	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,540		
PH05	8/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,330		
PH05	8/28/2024	4	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,280		
PH05	8/28/2024	6	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,840		
PH05	8/28/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	319		
PH05	8/28/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	556		
PH06	8/28/2024	0	< 0.0250	< 0.0500	<20.0	277	380	277	657	1,460		
PH06	8/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,390		
PH06	8/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,790		
PH06	8/28/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,380		
PH06	8/28/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,540		
PH06	8/28/2024	10	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	236		

Page 1

**ENSOLUM** 

				SOIL SAMP	ABLE 1 - CON LE ANALYTICA Ray State Slot 4 or Production Co / County, New M	L RESULTS				
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	1,118
				Delir	neation Soil San	nples				
PH06	8/28/2024	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	250
PH07	8/28/2024	0	< 0.0250	< 0.0500	<20.0	545	1840	545	2385	3,990
PH07	8/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,050
PH07	8/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	821
PH07	8/28/2024	6	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,870
PH07	8/29/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,230
PH07	8/29/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,160
PH07	8/29/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	768
PH07	8/29/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	653
PH07	8/29/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	672
PH08	8/29/2024	0	<0.0250	< 0.0500	<20.0	516	152.0	516	668	2,760
PH08	8/29/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,680
PH08	8/29/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,750
PH08	8/29/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,680
PH08	8/29/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	613
PH08	8/29/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	812
PH08	8/29/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	670
PH09	8/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,240
PH09	8/30/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,770
PH09	8/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,860
PH09	8/30/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,060
PH09	8/30/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,120
PH09	8/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
PH09	8/30/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	414
PH09	8/30/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	923
PH09	8/30/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	790

	TABLE 1 - CONT'D   SOIL SAMPLE ANALYTICAL RESULTS   Ray State Slot 4   Matador Production Company   Eddy County, New Mexico													
Sample Designation	Sample   Depth   Benzene   Total BTEX   TPH GRO   TPH DRO   TPH ORO   GRO+DRO   Total TPH   Chloride													
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600				
				Delir	neation Soil San	nples								
SS01	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	297				
SS02	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	244				
SS03	8/29/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.5				

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

**ENSOLUM** 

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



				Matado	TABLE 2   LE ANALYTICA   Ray State Slot 4   pr Production Co   County, New Mage	l mpany				
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
				Back	ground Soil Sai	nples				
BG03	9/5/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BG03	9/5/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.8
BG03	9/5/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,940
BG03	9/5/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,790
BG03	9/5/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,650
BG03	9/5/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	844
BG03	9/5/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	897
BG03	9/5/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,040
BG03	9/5/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	396
BG03	9/5/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	511
BG04	9/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BG04	9/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	830
BG04	9/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,610
BG04	9/19/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,590
BG04	9/19/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,140
BG04	9/19/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	524
BG04	9/19/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,290
BG04	9/19/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	509
BG05	9/6/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BG05	9/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.3
BG05	9/6/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,690
BG05	9/6/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,380
BG05	9/6/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
BG05	9/6/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	640
BG05	9/6/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	907
BG05	9/6/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	138
BG06	9/6/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BG06	9/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BG06	9/6/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,110
BG06	9/6/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,650
BG06	9/6/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,380
BG06	9/6/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	824
BG06	9/6/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	601

	TABLE 2 - CONT'D   SOIL SAMPLE ANALYTICAL RESULTS   Ray State Slot 4   Matador Production Company   Eddy County, New Mexico													
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I	Closure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600				
				Back	ground Soil Sar	nples								
BG06	9/6/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	213				
BG07	9/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140				
BG07	9/19/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	813				
BG07	9/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,440				
BG07	9/19/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,040				
BG07	9/19/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,290				
BG07	9/19/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,890				
BG07	9/19/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	81.6				
BG07	9/19/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	766				
BG07	9/19/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	839				

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



				Matado	TABLE 3   LE ANALYTICA   Ray State Slot 4   or Production Co   / County, New M	mpany				
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	See Below
				Excava	tion Floor Soil S	amples				
FS01	2/26/2025	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,520
FS02	2/25/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,450
FS03	2/25/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,860
FS04	2/25/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,040
FS05	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,180
FS06	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	703
FS07	2/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,070
FS08	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	237
FS09	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,210
FS10	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	998
FS11	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,040
FS12	2/26/2025	1	<0.0250	<0.0500	<20.0	36.0	50.6	36.0	86.6	1,490
FS13	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	770
FS14	2/26/2025	1	<0.0250	<0.0500	<20.0	30.4	<50.0	<25.0	30.4	135
FS15	2/27/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,590
FS16	2/26/2025	1	<0.0250	<0.0500	<20.0	35.9	<50.0	<25.0	3509	2,170
FS17	2/27/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	995
FS18	2/27/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,370
FS19	2/27/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	605
FS20	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	280
FS21	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,250
FS22	2/26/2025	1	<0.0250	< 0.0500	<20.0	66.7	<50.0	<25.0	66.7	2,760
FS23	2/27/2025	2	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,320
FS24	2/27/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,480
FS25	2/26/2025	1	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,340
FS26	2/26/2025	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,190
FS27	2/27/2025	2	<0.0250	<0.0500	<20.0	36.1	<50.0	<25.0	36.1	2,610
FS28	2/27/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	375
FS29	2/27/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,760
FS30	2/27/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,510
FS31	2/27/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,340
1.001	2/21/2023	۷	<0.0200	<0.0000	< <u>2</u> 0.0	<20.0	<ju.u< td=""><td>&lt;20.0</td><td>&lt;00.0</td><td>2,340</td></ju.u<>	<20.0	<00.0	2,340

				SOIL SAMP	BLE 3 - CON PLE ANALYTICA Ray State Slot 4 or Production Co y County, New Mo	AL RESULTS I mpany				
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	See Below
				Excavat	tion Floor Soil S	Samples				
FS32	2/27/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,240
FS33	2/27/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,190
FS34	2/27/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,230
FS35	2/27/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
FS36	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,450
FS37	2/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,660
FS38	2/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
FS39	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,330
FS40	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,090
FS41	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,910
FS42	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,930
FS43	2/27/2025	2	<0.0250	<0.0500	<20.0	47.7	<50.0	<25.0	47.7	3,280
FS44	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,800
FS45	2/26/2025	1.5	<0.0250	<0.0500	<20.0	27.7	<50.0	<25.0	27.7	1,570
FS46	2/26/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,290
FS47	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	999
FS48	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,070
FS49	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	763
FS50	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,350

	TABLE 3 - CONT'D   SOIL SAMPLE ANALYTICAL RESULTS   Ray State Slot 4   Matador Production Company   Eddy County, New Mexico													
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I	Closure Criteria (	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	See Below				
				Excava	tion Floor Soil S	Samples								
FS51	2/27/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,110				
FS52	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	504				
FS53	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200				
FS54	<50.0	852												
FS55	2/27/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,270				
FS56	2/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,380				

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

See Below: Gross chloride impacts are concentrations above 600 mg/kg associated with elevated TPH concentrations.

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



	TABLE 4   SOIL SAMPLE ANALYTICAL RESULTS   Ray State Slot 4   Matador Production Company   Eddy County, New Mexico													
Sample Designation														
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600				
				Sid	dewall Soil Samp	les								
SW01	2/27/2025	0 - 1.5	<0.0250	<0.0500	<20.0	28.9	<50.0	<25.0	28.9	1,940				
SW02	2/27/2025	0 - 1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,580				
SW03	2/27/2025	0 - 4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	817				
SW04	2/27/2025	0 - 4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	907				
SW05	SW05 2/27/2025 0-1.5 <0.0250 <0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 1,200													

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

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



# **APPENDIX A**

Well Log and Record



# New Mexico Office of the State Engineer Point of Diversion Summary

			(					=SW 4=S	,				
	_			· ·	ters are			0 /	(NAI		M in mete	,	
Well Tag	PC	D Number		Q64 (	216 Q	4 Sec	Tws	Rng		Х		Y	
	С	03615 POD1		1	3 2	2 06	24S	29E	59´	1964	35685	00 🌍	
Driller Licen	se:	1348	Drille	er Co	mpan	<b>у:</b> Т/	<b>AYLO</b>	R WAT	ER W	ELL S	SERVIC	E	
Driller Name	:	TAYLOR, CLINT	ON E.	(LD	))								
Drill Start Da	ate:	05/04/2013	Drill	Finis	sh Dat	e:	05/	04/201:	3	Plug	Date:		
Log File Dat	e:	05/10/2013	PCW	Rcv	Date:					Sour	ce:	S	Shallow
Pump Type:			Disc	harge	Size:	Size: Estimated Yield:					ield: 5	6 GPM	
Casing Size:	:	2.00	Dept	h We	ell:		60	feet		Dept	h Wateı	r: 3	6 feet
v	Vate	r Bearing Stratific	cations	s:	Тор	Bot	tom	Descri	ption				
					50	)	60	Sandst	tone/G	ravel	/Congloi	merate	9
		Casing Perfo	oration	s:	Тор	Bot	tom						
					50		60						

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: BG03	Date: 9/5/2024
			NI	C		LU	R A	Site Name: Ray State Slot 4	
				3				Incident Number: nAPP24178727	18
								Job Number: 03A2270052	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Chad Hamilton	Method: Trackhoe
Coord	inates: 32	2.251409,	, -104	.035612				Hole Diameter: 3'	Total Depth: 18'
			-					PID for chloride and vapor, respect factors included.	tively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
D	ND		N	BG03	0	0	SP-SM	Top Soil - Silty Sand, Light to me grained, Dry, Non-Plastic, Noncol Uniform, S	nesive, Thickly Bedded, Non-
D	ND		Ν	BG03	1	1 -	CCHE	Caliche - Moderately to strongly Pink, 70% Medium to fine graine Cobbles, Massive, Slig	consolidated, White to Light d with 30% medium to large
D	ND		N	BG03	2	2			
D	823		N	BG03	3	- - - - - - - - - - - - - - - - - - -			
D	1,808		N	BG03	4	4			
D	1,254		N	BG03	5	5			
D	1,808		N	BG03	6	6			
D	1,685		N	BG03	7	- 7	CCHE	Caliche - Moderately consolidate Medium to fine grained with 305 Massive, Slightly o	% medium to large Cobbles,
D	1,568		N	BG03	8	8			
D	1,254		N	BG03	9	9			
D	744		N	BG03	10	10			
D	823		N	BG03	11	- 11			
D	554		N	BG03	12	12			

							Sample Name: BG03 Date: 9/5/2024			
		R I	C		LU		Site Name: Ray State Slot 4			
			3				Incident Number: nAPP2417872718			
							Job Number: 03A2270052			
	LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Chad Hamilton Method: Trackhoe			
Coordinates: 3	2.251409	, -104	.035612				Hole Diameter: 3' Total Depth: 18'			
		-					PID for chloride and vapor, respectively. Chloride test factors included.			
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D 554		N	BG03	13	13	CCHE	Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles Massive, Slightly disintegrated			
D 1,159		Ν	BG03	14	14					
D 980		N	BG03	15	15	СН	Fat Clay with Trace Gravel - Medium to Dark Brown, Very fir grained with trace gravel, Dry, Medium Plasticity, Cohesive, Massive, Non-Uniform, Alluvial, Sharp			
D 442		N	BG03	16	16		Sand with some Gravel - Red to White, Coarse to Medium			
D 823		N	BG03	17	17	SW	Grained with some Medium to large gravel, Dry, Non-Plasito Noncohesive, Massive, NON-uniform, Fluvial, Gradational			
D 554		N	BC03	-	18		Hit Refusal at 18' bgs.			
			0005			th @ 18	feet bgs.			
D 554 N BG03 18 T 18 Total Depth @ 18 feet bgs.										

								Sample Name: BG04	Date: 9/19/24	
			N	C		L U	R A	Site Name: Ray State Slot 4		
								Incident Number: nAPP2417872718		
								Job Number: 03A2270052		
		LITHOL	OGI		SAMPLING	G LOG		Logged By: Chad Hamilton	Method: Trackhoe	
Coord		2.252349						Hole Diameter: 3'	Total Depth: 14'	
Comm	ents: Fie	ld screen	ing co	onducted v	ith HACH Ch	nloride Test	Strips and	PID for chloride and vapor, respec	tively. Chloride test	
perfor	med witl	h 1:4 dilu	tion f	actor of so	il to distilled	water. No c	orrection	factors included.		
Moisture Content	Chloride Chloride (ppm) (ppm)					Lithologic Des	scriptions			
D			Ν	BG04	0	0				
D	409 1,014		N	BG04 BG04	- 1 - 2		SP-SM	Top Soil - Silty Sand, Light to me grained, Dry, Non-Plastic, Noncoh		
D	1,014		N	BG04	2 - - - -	2		Uniform, Sharp		
D	1,294		Ν	BG04	4	4				
D	1,848		Ν	BG04	5 _	5				
D	1,848		Ν	BG04	6 _	6	CCHE	Caliche - Moderately to strongly o Brown, 70% Medium to fine gra large Cobbles, Massive, Slightly	ined with 30% medium to	
D	1,495		N	BG04	7	- 7 - 7				
D	851		Ν	BG04	8 _	8				
D	706		Ν	BG04	9	- 9 -		Sand with some Gravel - Med B		
D	515		N	BG04	10	10	SW	Medium Grained with some Medi Plasitc, Noncohesive, Massive Gradatio	e, NON-uniform, Fluvial,	
D	1,103 1,193		N N	BG04 BG04	11 	11 	SW	Sand with some Gravel - Red to Grained with some Medium to la Noncohesive, Massive, NON-	rge gravel, Dry, Non-Plasitc,	

						Sample Name: BG04	Date: 9/19/24				
		C									
		3	ΟΙ			/ Incident Number: nAPP24178727	18				
						Job Number: 03A2270052					
LIT	THOLOGIC	C / SOIL S	SAMPLING	6 LOG		Logged By: Chad Hamilton	Method: Trackhoe				
Coordinates: 32.25						Hole Diameter: 3'	Total Depth: 14'				
Comments: Field s performed with 1:4						PID for chloride and vapor, respec factors included.	tively. Chloride test				
Moisture Content Chloride (ppm) Vapor	(ppm) Staining	Sample ID	Sample Depth (ft bgs)	Lithologic Des	scriptions						
D 515	N	BG04	13	13 - - - 14	SW	Grained with some Medium to la Noncohesive, Massive, NON-	rge gravel, Dry, Non-Plasitc, uniform, Fluvial, Abrupt				
	1 11	0004	1 <del>.1</del>		pth at 1		-				
Grained with some Medium to large gravel. Dry, Non-Plasito											

								Sample Name: BG05	Date: 9/5/2024
			N	C		<b>_</b> U	R.A	Site Name: Ray State Slot 4	
								Incident Number: nAPP241787271	8
								Job Number: 03A2270052	
		LITHOL	OGI	C / SOIL S	SAMPLING	i log		Logged By: Chad Hamilton	Method: Trackhoe
		2.251800,						Hole Diameter: 3'	Total Depth:
			-				PID for chloride and vapor, respect factors included.	ively. Chloride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
D			N	BG05	0 ]	L 0 -	SP-SM	Top Soil - Silty Sand, Light to mee grained, Dry, Non-Plastic, Noncoh Uniform, S	esive, Thickly Bedded, Non-
D	ND		N	BG05	1 _	1 	CCHE	Caliche - Moderately to strongly c Pink, 70% Medium to fine grained Cobbles, Massive, Sligh	l with 30% medium to large
D	ND		Ν	BG05	2	2			,
D	ND		N	BG05	3 _	- - - - -			
D	1,635		N	BG05	4	4			
D	1,316		N	BG05	5 _	5			
D	1,220		N	BG05	6	- - 6			
D	1,523		N	BG05	7	7	CCHE	Caliche - Moderately consolidate Medium to fine grained with 30% Massive, Slightly d	medium to large Cobbles,
D	1,220		N	BG05	8_	8			
D	1,041		N	BG05	9	- 9			
D	537		N	BG05	10	10			
D	487		N	BG05	11 _	- 11			
D	800		N	BG05	- 12	- 12			

	_							Sample Name: BG05	Date: 9/6/2024			
			R I	C		LU		Site Name: Ray State Slot 4	•			
				3				Incident Number: nAPP2417872718				
								Job Number: 03A2270052				
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Chad Hamilton	Method: Trackhoe			
Coord	inates: 32	2.251800	, -104	.035310				Hole Diameter: 3'	Total Depth:			
								PID for chloride and vapor, respected for the second sec	ctively. Chloride test			
Moisture Content (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (tpm) (						Lithologic De	escriptions					
D	660		Ν	BG05	13	L 0						
D	ND		N	BG05	 14	1	SW	Sand with some Gravel - Red t Grained with some Medium to l Noncohesive, Massive, NON-u	arge gravel, Dry, Non-Plasitc,			
	ND		N	BG05	_ 15		Hit Refusal a	at 15' bgs.				
	D   ND   N   BG05   15   2     Total Depth @ 15 feet bgs.											
				•								

								Sample Name: BG06	Date: 9/5/2024
			NI	C		LU	R/	Site Name: Ray State Slot 4	
				3				Incident Number: nAPP241787271	18
								Job Number: 03A2270052	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Chad Hamilton	Method: Trackhoe
Coord	inates: 32	2.252070,	, -104	.035147				Hole Diameter: 3'	Total Depth:
							PID for chloride and vapor, respect factors included.	ively. Chloride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
D			N	BG06	0	0	SP-SM	Top Soil - Silty Sand, Light to me grained, Dry, Non-Plastic, Noncoh Uniform, S	esive, Thickly Bedded, Non-
D	ND		Ν	BG06	1	1 - 1	CCHE	Caliche - Moderately to strongly of Pink, 70% Medium to fine grained Cobbles, Massive, Sligh	d with 30% medium to large
D	ND		N	BG06	2	2			,
D	162		N	BG06	3	3			
D	1,220		N	BG06	4	4			
D	1,523		N	BG06	5_	- - 5 -			
D	1,758		N	BG06	6	6	CCHE	Caliche - Moderately consolidate Medium to fine grained with 309	6 medium to large Cobbles,
D	1,416		N	BG06	7	7		Massive, Slightly c	lisintegrated
D	1,316		N	BG06	8	8			
D	1,221		N	BG06	9	9			
D	1,042		N	BG06	10	10			
D	386		N	BG06	11	- 11	SW	Sand with some Gravel - Red to Grained with some Medium to la	
D	487		N	BG06	- 12	12	346	Noncohesive, Massive, NON-un	

						Sample Name: BG06	Date: 9/6/2024				
		C									
		3	O L	U		Incident Number: nAPP24178727	/18				
						Job Number: 03A2270052					
LIT	HOLOGIC	/ SOIL S	AMPLING LC	G		Logged By: Chad Hamilton	Method: Trackhoe				
Coordinates: 32.25	52070, -104.	035147				Hole Diameter: 3'	Total Depth:				
Comments: Field so performed with 1:4						PID for chloride and vapor, respectation for chloride and vapor, respectation for the second state of the	ctively. Chloride test				
Moisture Content Chloride (ppm) Vapor	(ppm) Staining	Sample ID	Sample Depth (ft bgs)	Lithologic De	escriptions						
D 263	D 263 N BG06 13 1 13 SW				SW	Sand with some Gravel - Red to Wh with some Medium to large gravel, Massive, NON-uniform, Hit Refusal ar	Dry, Non-Plasitc, Noncohesive, Fluvial, Gradational				
	N	BG06	<u>14</u> Tot	14 al Deni	th @ 1/						
Total Depth @ 14 feet bgs.											

								Sample Name: BG07 Date: 9/19/24		
			N	C		LU	R A	Site Name: Ray State Slot 4		
								Incident Number: nAPP2417872718		
								Job Number: 03A2270052		
		LITHOL	OGI		SAMPLING	G LOG		Logged By: Chad Hamilton Method: Trackhoe		
Coord	inates: 3	2.252542	, -104	.033381				Hole Diameter: 3' Total Depth: 15'		
			-					PID for chloride and vapor, respectively. Chloride test factors included.		
Moisture Content	Chloride Chloride (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (t pgs) (t				Depth		USCS/Rock Symbol	Lithologic Descriptions		
D			Ν	BG07	0	0				
D	1,013		N	BG07	- - 1 _ -	- - - - -	CCHE	Caliche - UNconsolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated		
D	851		Ν	BG07	2	2 	SP-SM	Top Soil - Silty Sand, Light to medium brown, coarse to fine grained, Dry, Non-Plastic, Noncohesive, Thickly Bedded, Non- Uniform, Sharp		
D	1,103		Ν	BG07	3	3				
D	1,103		N	BG07	4	- 4	ССНЕ	Caliche - Moderately to strongly consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to		
D	1,848		N	BG07	5	- - 5 -		large Cobbles, Massive, Slightly disintegrated		
D	2,429		N	BG07	6	6				
D	2,419		N	BG07	7	- - 7 -	CCHE	Caliche - Moderately to strongly consolidated, Light Brown, 70% Medium to fine grained with 30% medium to large		
D	2,117		Ν	BG07	8	- 8		Cobbles, Massive, Slightly disintegrated		
D	2,262		N	BG07	9 _	9				
D	1,848		N	BG07	10	10	SW	Sand with some Gravel - Med Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non- Plasitc, Noncohesive, Massive, NON-uniform, Fluvial, Gradational		
D	448		N	BG07	11	11	SW	Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plasitc, Noncohesive, Massive, NON-uniform, Fluvial, Gradational		
D	409		Ν	BG07	12	12				

				Sample Name: BG07	Date: 9/19/24						
			R A								
	IN J	OLU		Incident Number: nAPP2417872718							
				Job Number: 03A2270052							
LITHOL	OGIC / SOIL S	SAMPLING LOG		Logged By: Chad Hamilton	Method: Trackhoe						
Coordinates: 32.252542	2, -104.033381			Hole Diameter: 3'	Total Depth: 15'						
		vith HACH Chloride Test il to distilled water. No o		PID for chloride and vapor, respe factors included.	ctively. Chloride test						
Moisture Content Chloride (ppm) Vapor (ppm)	Staining Sample ID	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions						
D 778	N BG07	13 13									
D 778	N BG07		SW		arge gravel, Dry, Non-Plasitc, I-uniform, Fluvial, Abrupt						
D 930	N BG07	15 15									
Hit Refusal at 15' bgs.											

								Sample Name: PH01	Date: 8/23/24	
			N	C		LU	NЛ	Site Name: Ray State Slot 4		
								Incident Number: Napp2417872718		
								Job Number: 03A2270052		
		lithol	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Bowan Simmons	Method: Backhoe	
Coordi	nates: 32	2.252411	, -104	.033953				Hole Diameter: 18"	Total Depth: 15ft	
							PID for chloride and vapor, respect factors included.	ively. Chloride test		
Moisture Content	Content Chloride (ppm) (						USCS/Rock Symbol	Lithologic Des	scriptions	
D			Ν	PH01	0	L 0				
D D	1259 1456		N N	PH01 PH01	1 2					
D	1069		N	PH01	3	3		Caliche - Moderately consolidate	d White to Light Pink 70%	
D	677		Ν	PH01	4	4	CCHE	Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated		
D	1254		N	PH01	5	- 5				
D	823		N	PH01	6	6				
D	744		N	PH01	7	- - 7 - 7				
D	1808		N	PH01	- 8	8				
D	1685		Ν	PH01	9	- - 9	SW	Sand with some Gravel - Red to Grained with some Medium to la		
D	1685		Ν	PH01	10	10		Noncohesive, Massive, NON-un	·	
D	1159		N	PH01	11	- 11		White to light browm caliche, S	Small to large gravel, Drv.	
D	700		N	PH01	12	12	CCHE	medium to coarse grained sand, Massice bedded, Non Ur	Non Plastic, Non Cohesive,	

						Sample Name: PH01	Date: 8/23/24	
		C						
	ΕΝ	3		. U		Incident Number: Napp2417872	718	
						Job Number: 03A2270052		
LI	ITHOLOGIC	C / SOIL S	SAMPLING	LOG		Logged By: Bowan Simmons	Method: Backhoe	
Coordinates: 32.2	252411, -104	.033953				Hole Diameter: 18"	Total Depth: 15ft	
Comments: Field performed with 1	-					PID for chloride and vapor, respe factors included.	ctively. Chloride test	
200	Vapor (ppm) Staining	Sample ID	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions		
D 840	N	PH01	13	13				
D 996	N	PH01	14	14	CCHE	White to light brown caliche, medium to coarse grained sand Massice bedded, Non L Hit Refusal a	d, Non Plastic, Non Cohesive, Jniform, Gradational	
D 632	Ν	PH01	15	15				

								Sample Name: PH02	Date: 8/27/2024			
			NI	C	ΟΙ		R A	Site Name: Ray State Slot 4				
				2				Incident Number: nAPP24178727	718			
								Job Number: 03A2270052				
		lithol	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: Brandon Deal	Method: Trackhoe			
Coord	inates: 32	2.252512	, -104	.034048				Hole Diameter: 3ft	Total Depth: 7ft			
			-					PID for chloride and vapor, respectation for chloride and vapor, respectation for the second se	ctively. Chloride test			
Moisture Content	Moisture Content Chloride (ppm) (ppm) (ppm) (ppm) (ppm) (t pbs) Debty (t pbs) (bpm) (t pbs) (bpm) (t pbs) (bpty (t pbs) (bpty) (bpm) (bpm) (t pbm) (bpm) (bpm) (bpm) (bpm) (t pbm) (bpm) (bpm) (t pbm) (bpm) (bpm) (t pbm) (t							Lithologic De	escriptions			
D			Y	PH02	0	0						
D	1,075		N	PH02	1	- - - 1 -		Caliche - Moderately consolidate	ad White to Light Brown 70%			
D	1,164		N	PH02	2	2	CCHE	Medium to fine grained with 30 Massive, Slightly	0% medium to large Cobbles,			
D	1,674		Ν	PH02	3	3						
D	1,075		Ν	PH02	4	4						
D	1,075		N	PH02	5	5 -	SW	Sand with some Gravel - Brown Grained with some Medium to I				
D	459		N	PH02	6	6		Noncohesive, Massive,				
D	358		N	PH02	7	- 7						
						Total Dep	oth @ 7	feet bgs.				
								Sample Name: PH03	Date: 8/27/2024			
---------------------	-------------------	----------------	----------	------------	-----------------------------	-------------------	-------------------------	---	--------------------------------	--	--	--
				C		LU	R A	Site Name: Ray State Slot 4				
				3				Incident Number: nAPP24178727	18			
								Job Number: 03A2270052				
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG	Logged By: Brandon Deal	randon Deal Method: Trackhoe				
Coordi	nates: 32	2.252585	, -104	.034158			Hole Diameter: 3ft	Total Depth: 7ft				
								PID for chloride and vapor, respec factors included.	tively. Chloride test			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions			
D			Y	PH03	0	0						
D	632		N	PH03	1							
D	706		Ν	PH03	2	2	CCHE	Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles Massive, Slightly disintegrated				
D	767		Ν	PH03	3	3						
D	840		Ν	PH03	4	4 						
D	996		Ν	PH03	5	5		Sand with some Gravel - Brown t	to White, Coarse to Medium			
D	358		Ν	PH03	6	6	SW	Grained with some Medium to la Noncohesive, Massive, N	arge gravel, Dry, Non-Plasitc,			
D	358		Ν	PH03	7	7						
						Total De	epth @ 7	' ft bgs.				

				Sample Name: PH04	Date: 8/28/2024	
		OLU	R A	Site Name: Ray State Slot 4		
	IN J			Incident Number: nAPP2417872	718	
				Job Number: 03A2270052		
LITH	OLOGIC / SOIL	SAMPLING LOG		Logged By: Brandon Deal Method: Trackhoe		
Coordinates: 32.2526	36, -104.034233			Hole Diameter: 3ft	Total Depth: 1ft	
		with HACH Chloride Test bil to distilled water. No		PID for chloride and vapor, respe factors included.	ctively. Chloride test	
Moisture Content Chloride (ppm) Vapor	S, S	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions	
D	Y PH04		ССНЕ	Caliche - Moderately consolidate Medium to fine grained with 30 Massive, Slightly	0% medium to large Cobbles,	
D 392	N PH04		nth @ 1	l foot bgs.		

								Sample Name: PH05	Date: 8/28/2024				
			NI	C		_ U	R/	Site Name: Ray State Slot 4					
				2				Incident Number: nAPP24178727	718				
								Job Number: 03A2270052					
		LITHOL	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: Brandon Deal	: Brandon Deal Method: Trackhoe				
Coord	nates: 32	2.252351	, -104	.033858				Hole Diameter: 3ft	Total Depth: 10ft				
								PID for chloride and vapor, respectation for chloride and vapor, respectation factors included.	ctively. Chloride test				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions				
D			Y	PH05	0	<u> </u>							
D	677 1,159		N	РН05 РН05	1 _ - 2 _	- 1 - 1 - 2							
D	1,685		Ν	PH05	3	- - - 3 -	ССНЕ	Caliche - Moderately consolidate Medium to fine grained with 30 Massive, Slightly	0% medium to large Cobbles,				
D	2,077		N	PH05	4	4							
D	2,223		N	PH05	5	- _ 5 -							
D	1,685		N	PH05	6	- - 6							
D	1,159		N	PH05	7	- 7							
D	392		N	PH05	8	- 8	SW	Sand with some Gravel - Brown Grained with some Medium to I Noncohesive, Massive,	arge gravel, Dry, Non-Plasitc,				
D	1,159		N	PH05	9	- 9							
	554		NI	חווסב	10	 10							
D	554		IN	PH05	10	Total De	pth @10	) ft bgs.					

								Sample Name: PH06	Date: 8/28/2024				
			NI	C		_ U	R.A	Site Name: Ray State Slot 4					
								Incident Number: nAPP241787271	18				
								Job Number: 03A2270052					
		LITHOL	OGIO	C / SOIL S	SAMPLING	i log		Logged By: Brandon Deal	Method: Trackhoe				
Coord	nates: 32	.252429,	, -104	.033762				Hole Diameter: 3ft	Total Depth: 11ft				
								PID for chloride and vapor, respect factors included.	ively. Chloride test				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions				
D			Y	PH06	0	0							
D	1,254		Ν	PH06	1	- - - - -							
D	2,380 2,223		N N	РН06 РН06	2	2 - - - - - - - - - - - - - - - - - - -	ССНЕ	Caliche - Moderately consolidated Medium to fine grained with 30% Massive, Slightly c	6 medium to large Cobbles,				
D	2,223		N	PH06	4	- - 4 							
D	2.,223		N	PH06	5_	5							
D	1,758		N	PH06	6	6							
D	2,161		N	PH06	7	- 7							
D	1,416		N	PH06	8_	8	SW	Sand with some Gravel - Brown to White, Coarse to Mo Grained with some Medium to large gravel, Dry, Non-F Noncohesive, Massive, NON-uniform, Fluvial					
D	956		N	PH06	9	9							
D	341		N	PH06	10	10							
D	224		N	PH06	11	 11 Total De	nth @1^	1 ft høs					
							Pur @1.						

								Sample Name: PH07	Date: 8/29/2024				
			NI	C		LU	R/	Site Name: Ray State Slot 4					
								Incident Number: nAPP2417872	718				
								Job Number: 03A2270052					
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Brandon Deal Method: Trackhoe					
	dinates: 32							Hole Diameter: 3ft	Total Depth: 16ft				
								PID for chloride and vapor, respe factors included.	ctively. Chloride test				
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions				
D			Y	PH07	0	0							
D	2,475		N	РН07 РН07	1 2								
D	2,312		N	PH07	3	- 3	ССНЕ	Medium to fine grained with 30	erately consolidated, White to Light Brown, 70 ne grained with 30% medium to large Cobbles Massive, Slightly disintegrated				
D	2,016		N	PH07	4	_ 4							
D	1,758		N	PH07	5	5							
D	1,416		N	PH07	6	6							
D	1,758		N	PH07	7	- - 7 -							
D	1,220		N	PH07	8 _ -	8							
D	800		N	PH07	9	9	SW	Sand with some Gravel - Brown to White, Coarse to Mec Grained with some Medium to large gravel, Dry, Non-Pla Noncohesive, Massive, NON-uniform, Fluvial					
D	1,220		N	PH07	10	10							
D	728		N	PH07	11	- 11							
D	873		N	PH07	12	 12							

ENSOLUM Site Name: Ray State Slot 4   Incident Number: nAPP2417872718 Job Number: 03A2270052   LITHOLOGIC / SOIL SAMPLING LOG Logged By: Brandon Deal Method: Track   Coordinates: 32.252270, -104.033768 Hole Diameter: 3ft Total Depth: 1   Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride to performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   unity of the system of the syst	6ft est to Medium Non-Plasitc,
Job Number: 03A2270052   LITHOLOGIC / SOIL SAMPLING LOG Logged By: Brandon Deal Method: Track   Coordinates: 32.252270, -104.033768 Hole Diameter: 3ft Total Depth: 1   Coordinates: 32.252270, -104.033768 Hole Diameter: 3ft Total Depth: 1   Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride to performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   and training of the performed with 1:4 dilution factor of soil to distilled water. No correction factors included. Lithologic Descriptions   and training of the performed with 1:4 dilution factor of soil to distilled water. No correction factors included. Sample Depth Total Depth Depth Total Depth Depth Depth Depth Total Depth Depth Depth Depth Depth Depth Depth Depth Sw Sand with some Gravel - Brown to White, Coarse   D 0 0 N PH07 15 15 Sw Sand with some Medium to large gravel, Dry, N Noncohesive, Massive, NON-uniform, Flu   D 0 0 N PH07 16 16 <th< td=""><th>6ft est to Medium Non-Plasitc,</th></th<>	6ft est to Medium Non-Plasitc,
LITHOLOGIC / SOIL SAMPLING LOG Logged By: Brandon Deal Method: Track   Coordinates: 32.252270, -104.033768 Hole Diameter: 3ft Total Depth: 1   Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride to performed with 1:4 dilution factor of soil to distilled water. No correction factors included. It also be the second	6ft est to Medium Non-Plasitc,
Coordinates: 32.252270, -104.033768 Hole Diameter: 3ft Total Depth: 1   Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride to performed with 1:4 dilution factor of soil to distilled water. No correction factors included. Description De	6ft est to Medium Non-Plasitc,
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride to performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   and to performed with 1:4 dilution factor of soil to distilled water. No correction factors included. Depth Depth Depth Depth Depth Depth Depth Depth Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride to performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   and to performed with 1:4 dilution factor of soil to distilled water. No correction factors included. Depth D	est to Medium Non-Plasitc,
performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   and the second se	to Medium Non-Plasitc,
D 1,416 N PH07 13 13   D 728 N PH07 14 14 Sand with some Gravel - Brown to White, Coarse Grained with some Medium to large gravel, Dry, I Noncohesive, Massive, NON-uniform, Flu   D 660 N PH07 15 15 SW Sand with some Gravel - Brown to White, Coarse Grained with some Medium to large gravel, Dry, I Noncohesive, Massive, NON-uniform, Flu   D 660 N PH07 15 15 SW Sand with some Gravel - Brown to White, Coarse Grained with some Medium to large gravel, Dry, I Noncohesive, Massive, NON-uniform, Flu   D 537 N PH07 16 16	Non-Plasitc,
D 728 N PH07 14 14 Sand with some Gravel - Brown to White, Coarse Grained with some Medium to large gravel, Dry, I Noncohesive, Massive, NON-uniform, Flux   D 660 N PH07 15 15 SW Sand with some Gravel - Brown to White, Coarse Grained with some Medium to large gravel, Dry, I Noncohesive, Massive, NON-uniform, Flux   D 537 N PH07 16 16	Non-Plasitc,
D 660 N PH07 15 15 Sand with some Gravel - Brown to White, Coarse Grained with some Medium to large gravel, Dry, I Noncohesive, Massive, NON-uniform, Flu   D 537 N PH07 16 16	Non-Plasitc,
D 660 N PH07 15 15 D 537 N PH07 16 16	
Total Depth @ 16 ft bgs	

								Sample Name: PH08	Date: 8/9/2024				
			NI	C	ΟΙ		NЛ	Site Name: Ray State Slot 4					
								Incident Number: nAPP24178727	18				
								Job Number: 03A2270052					
		lithol	OGIO	C / SOIL S	SAMPLING	i log		gged By: Brandon Deal Method: Trackhoe					
	inates: 32							Hole Diameter: 3ft	Total Depth: 12ft				
								PID for chloride and vapor, respec factors included.	tively. Chloride test				
Moisture Content (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (tride Debty (tride (tride Debty (tride)								Lithologic Descriptions					
D			Y	PH08	0	0							
D	2,016		Ν	PH08	- 1 - -	- - - 1 -							
D	1,718		Ν	PH08	2	2		Caliche - Moderately consolidate	d, White to Light Brown, 70%				
D	1,635		N	PH08	3	- 3 -	CCHE	Medium to fine grained with 30 Massive, Slightly	_				
D	1,758		N	PH08	4	4							
D	1,635		N	PH08	5	- - 5 -							
D	1,416		N	PH08	6	6							
D	1,635		N	PH08	7	- - 7 -							
D	800		N	PH08	8	- 8		Sand with some Gravel - Brown to White, Coarse to Media Grained with some Medium to large gravel, Dry, Non-Plas Noncohesive, Massive, NON-uniform, Fluvial					
D	1,125		N	PH08	9	- 9	SW						
D	728		N	PH08	10	10							
D	1,125		N	PH08	11 _	- 11							
D	537		N	PH08	- 12	 12							

								Sample Name: PH09	Date: 8/30/2024				
			N	C		<b>.</b> U	NЛ	Site Name: Ray State Slot 4					
								Incident Number: nAPP24178727	18				
								Job Number: 03A2270052					
		LITHOL	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: Brandon Deal	By: Brandon Deal Method: Trackhoe				
	inates: 32							Hole Diameter: 3ft	Total Depth: 16ft				
								PID for chloride and vapor, respec factors included.	tively. Chloride test				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions				
D			Y	PH09	0	0							
D	>3,388		N	РН09	- 1 -	- - - 1 -							
D	>3,388		N	PH09	2	2		Caliche - Moderately consolidated	d, White to Light Brown, 70%				
D	>3,388		N	PH09	3	3	CCHE	Medium to fine grained with 30 Massive, Slightly	_				
D	>3,388		N	PH09	4	4							
D	2,380		N	РН09	5	- - 5 -							
D	2,929		N	PH09	6	6							
D	2,734		N	PH09	7	- - 7 -							
D	2,924		N	PH09	8	- 8							
D	2,223		N	PH09	9	- 9	SW	Sand with some Gravel - Brown to White, Coarse to Med Grained with some Medium to large gravel, Dry, Non-Pla Noncohesive, Massive, NON-uniform, Fluvial					
D	1,686		N	РН09	10	10							
D	901		N	РН09	11 _	11 11							
D	610		N	PH09	- 12	- 12							

l							Sample Name: PH09	Date: 8/30/2024
		NI	C	ΟΙ		R/	Site Name: Ray State Slot 4	
			3				Incident Number: nAPP2417872	718
							Job Number: 03A2270052	
	LITHOL	OGIO	C / SOIL S	SAMPLING	6 LOG		Logged By: Brandon Deal	Method: Trackhoe
Coordinates: 3					Hole Diameter: 3ft	Total Depth: 16ft		
							PID for chloride and vapor, respe factors included.	ctively. Chloride test
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
D 678		Ν	PH09	13	13			
D 1,254		Ν	РН09	14	14	ССНЕ	Caliche - Moderately consolidate Medium to fine grained with 3 Massive, Slightly Hit Refusa	0% medium to large Cobbles, / disintegrated
D 1,809		Ν	PH09	15 _	_ 15		nit Kelusa	
D 2 200			DUIDO	10	- 10			
D 2,380		Ν	PH09	16	<u> </u>	nth @ 1	6 ft høs	



APPENDIX C

Photographic Log

Released to Imaging: 4/21/2025 3:13:23 PM























# APPENDIX D

# Laboratory Analytical Reports & Chain-of-Custody Documentation





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:

Ray State Slot 4

Work Order: E409052

Job Number: 23003-0002

Received: 9/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/13/24

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: 9/13/24

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

Project Name: Ray State Slot 4 Workorder: E409052 Date Received: 9/7/2024 6:00:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2024 6:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

### Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BG03-0'	5
BG03-2'	6
BG03-4'	7
BG03-6'	8
BG03-8'	9
BG03-10'	10
BG03-12'	11
BG03-14'	12
BG03-16'	13
BG03-18'	14
QC Summary Data	15
QC - Volatile Organic Compounds by EPA 8260B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc.	20

#### **Sample Summary**

#### Page 61 of 432

		Sumple Sum	mar y		
Matador Resources, LLC.		Project Name:	Ray State Slot 4		Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23003-0002		Reporteu:
Dallas TX, 75240		Project Manager:	Ashley Giovengo		09/13/24 12:00
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG03-0'	E409052-01A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-2'	E409052-02A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-4'	E409052-03A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-6'	E409052-04A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-8'	E409052-05A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-10'	E409052-06A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-12'	E409052-07A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-14'	E409052-08A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-16'	E409052-09A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.
BG03-18'	E409052-10A	Soil	09/05/24	09/07/24	Glass Jar, 2 oz.



		umpie D					
Matador Resources, LLC.	Project Name	e: Ray	State Slot 4	ŀ			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 2300	03-0002				Reported:
Dallas TX, 75240	Project Mana	ger: Ash	Ashley Giovengo				9/13/2024 12:00:34PM
		BG03-0'					
		E409052-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RK	S		Batch: 2437002
Benzene	ND	0.0250	1		09/09/24	09/10/24	
Ethylbenzene	ND	0.0250	1		09/09/24	09/10/24	
Toluene	ND	0.0250	1		09/09/24	09/10/24	
p-Xylene	ND	0.0250	1	l	09/09/24	09/10/24	
o,m-Xylene	ND	0.0500	1	l	09/09/24	09/10/24	
Total Xylenes	ND	0.0250	1		09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		98.4 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		98.8 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RK	S		Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		98.4 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		98.8 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	1	Analyst: NV	r		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0	1		09/09/24	09/09/24	
Dil Range Organics (C28-C36)	ND	50.0	1		09/09/24	09/09/24	
urrogate: n-Nonane		78.0 %	50-200		09/09/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: IY			Batch: 2437011
Chloride	ND	20.0	1		09/09/24	09/09/24	

### Sample Data



Samp	le Data
~ mp	ic Data

	3	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 9/13/2024 12:00:34PM
		BG03-2'					
		E409052-02					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2437002
Benzene	ND	0.0250		1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
Toluene	ND	0.0250		1	09/09/24	09/10/24	
-Xylene	ND	0.0250		1	09/09/24	09/10/24	
,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Fotal Xylenes	ND	0.0250		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		94.7 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		09/09/24	09/10/24	
urrogate: Toluene-d8		100 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		94.7 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		100 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
urrogate: n-Nonane		83.2 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2437011
Chloride	45.8	20.0		1	09/09/24	09/09/24	



Sampl	e Data
Samp	U Dutu

	50	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 03-0002 ey Giover				<b>Reported:</b> 9/13/2024 12:00:34PM
		BG03-4'					
		E409052-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2437002
Benzene	ND	0.0250		1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
oluene	ND	0.0250		1	09/09/24	09/10/24	
-Xylene	ND	0.0250		1	09/09/24	09/10/24	
,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		96.1 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130		09/09/24	09/10/24	
urrogate: Toluene-d8		102 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		96.1 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		102 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
Surrogate: n-Nonane		89.5 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2437011
Chloride	1940	40.0		2	09/09/24	09/11/24	



Sampl	e Data
Samp	U Dutu

	3	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	per: 2300	State Slot 4 03-0002 ey Giovengo			<b>Reported:</b> 9/13/2024 12:00:34PM
		BG03-6'				
		E409052-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2437002
Benzene	ND	0.0500	2	09/09/24	09/10/24	
Ethylbenzene	ND	0.0500	2	09/09/24	09/10/24	
oluene	ND	0.0500	2	09/09/24	09/10/24	
-Xylene	ND	0.0500	2	09/09/24	09/10/24	
,m-Xylene	ND	0.100	2	09/09/24	09/10/24	
Total Xylenes	ND	0.0500	2	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		96.3 %	70-130	09/09/24	09/10/24	
urrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/09/24	09/10/24	
urrogate: Toluene-d8		101 %	70-130	09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/09/24	09/10/24	
'urrogate: Bromofluorobenzene		96.3 %	70-130	09/09/24	09/10/24	
'urrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/09/24	09/10/24	
urrogate: Toluene-d8		101 %	70-130	09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/09/24	09/10/24	
urrogate: n-Nonane		96.5 %	50-200	09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2437011
Chloride	1790	200	10	09/09/24	09/09/24	



Sample Data	Samp	le Data	
-------------	------	---------	--

	DC	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/13/2024 12:00:34PM
		BG03-8'					
		E409052-05					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2437002
Benzene	ND	0.0250		1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
oluene	ND	0.0250		1	09/09/24	09/10/24	
-Xylene	ND	0.0250		1	09/09/24	09/10/24	
o,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		92.0 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		09/09/24	09/10/24	
Jurrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		92.0 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		09/09/24	09/10/24	
urrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
Surrogate: n-Nonane		103 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2437011
Chloride	1650	200		10	09/09/24	09/09/24	



Sample Data
-------------

	D	ample D	ala				
Matador Resources, LLC.	Project Name:	-	State Slot 4	4			Demented
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Number Project Manag			~~			<b>Reported:</b> 9/13/2024 12:00:34PM
Danas 1A, 73240	Project Manag	ger: Asin	ley Gioven	go			9/13/2024 12:00:54FW
		BG03-10'					
		E409052-06					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2437002
Benzene	ND	0.0250		1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
Toluene	ND	0.0250		1	09/09/24	09/10/24	
o-Xylene	ND	0.0250		1	09/09/24	09/10/24	
,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Fotal Xylenes	ND	0.0250		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		94.4 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		105 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		94.4 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		105 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
Surrogate: n-Nonane		86.2 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2437011
Chloride	844	40.0		2	09/09/24	09/09/24	



#### Sample Data

	St	imple D	ata				
Matador Resources, LLC.	Project Name:	•	State Slot	4			
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002				Reported:
Dallas TX, 75240	Project Manag	er: Ash	ey Giover	ngo			9/13/2024 12:00:34PM
		BG03-12'					
	-	E409052-07					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2437002
Benzene	ND	0.0250		1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
Toluene	ND	0.0250		1	09/09/24	09/10/24	
p-Xylene	ND	0.0250		1	09/09/24	09/10/24	
o,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		99.6 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		104 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		99.6 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		104 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
Surrogate: n-Nonane		89.1 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	IY		Batch: 2437011
Chloride	897	40.0		2	09/09/24	09/09/24	



#### Sample Data

	D	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 03-0002 ley Gioven				<b>Reported:</b> 9/13/2024 12:00:34PM
		BG03-14'					
		E409052-08					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	*	<u> </u>	Batch: 2437002
Senzene	ND	0.0250		1	09/09/24	09/10/24	Datent 2107002
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
Toluene	ND	0.0250		1	09/09/24	09/10/24	
-Xylene	ND	0.0250		1	09/09/24	09/10/24	
,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250		1	09/09/24	09/10/24	
urrogate: Bromofluorobenzene		94.7 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130		09/09/24	09/10/24	
urrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		94.7 %	70-130		09/09/24	09/10/24	
urrogate: 1,2-Dichloroethane-d4		90.2 %	70-130		09/09/24	09/10/24	
urrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
'urrogate: n-Nonane		91.4 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2437011
Chloride	1040	40.0		2	09/09/24	09/09/24	



Sample Data	Sam	ole Da	ta
-------------	-----	--------	----

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	er: 2300	State Slot )3-0002 ley Gioven				<b>Reported:</b> 9/13/2024 12:00:34PM
		BG03-16'					
		E409052-09					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2437002
Benzene	ND	0.0250		1	09/09/24	09/10/24	Datent 210,002
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
ĵoluene	ND	0.0250		1	09/09/24	09/10/24	
o-Xylene	ND	0.0250		1	09/09/24	09/10/24	
,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		95.7 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		95.7 %	70-130		09/09/24	09/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		09/09/24	09/10/24	
Surrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV			Batch: 2436094	
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
Surrogate: n-Nonane		174 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: IY		Batch: 2437011
Chloride	396	20.0		1	09/09/24	09/09/24	



Samp	le Data
~ mp	ic Dutu

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		State Slot	<b>Reported:</b> 9/13/2024 12:00:34PM			
Dallas TX, 75240	Project Manager: Ashley Giove				go		
		BG03-18'					
		E409052-10					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2437002
Benzene	ND	0.0250		1	09/09/24	09/10/24	
Ethylbenzene	ND	0.0250		1	09/09/24	09/10/24	
oluene	ND	0.0250		1	09/09/24	09/10/24	
-Xylene	ND	0.0250		1	09/09/24	09/10/24	
,m-Xylene	ND	0.0500		1	09/09/24	09/10/24	
Total Xylenes	ND	0.0250		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		94.0 %	70-130		09/09/24	09/10/24	
urrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		09/09/24	09/10/24	
urrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2437002
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/09/24	09/10/24	
Surrogate: Bromofluorobenzene		94.0 %	70-130		09/09/24	09/10/24	
urrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		09/09/24	09/10/24	
urrogate: Toluene-d8		101 %	70-130		09/09/24	09/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV		Analyst: NV		Batch: 2436094
Diesel Range Organics (C10-C28)	ND	25.0		1	09/09/24	09/10/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/09/24	09/10/24	
urrogate: n-Nonane		87.6 %	50-200		09/09/24	09/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2437011
Chloride	511	20.0		1	09/09/24	09/09/24	



## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	23	y State Slot 4 003-0002					Reported:	
Dallas TX, 75240		Project Manager:	As	hley Giovengo				9/	13/2024 12:00:34PM	
	Volatile Organic Compounds by EPA 8260B							Analyst: RKS		
Analyte		Reporting	Spike	Source		Rec		RPD		
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2437002-BLK1)							Prepared: 09	9/09/24 Ana	lyzed: 09/10/24	
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	0.487		0.500		97.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.437		0.500		94.1	70-130				
			0.500		105	70-130				
Surrogate: Toluene-d8	0.524		0.500		105	/0-130				
LCS (2437002-BS1)							Prepared: 09	9/09/24 Ana	lyzed: 09/10/24	
Benzene	2.16	0.0250	2.50		86.4	70-130				
Ethylbenzene	2.21	0.0250	2.50		88.5	70-130				
Toluene	2.35	0.0250	2.50		93.9	70-130				
p-Xylene	2.35	0.0250	2.50		94.1	70-130				
p,m-Xylene	4.66	0.0500	5.00		93.2	70-130				
Total Xylenes	7.01	0.0250	7.50		93.5	70-130				
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130				
Surrogate: Toluene-d8	0.512		0.500		102	70-130				
Matrix Spike (2437002-MS1)				Source: E	409052-	07	Prepared: 09	9/09/24 Ana	lyzed: 09/10/24	
Benzene	2.29	0.0250	2.50	ND	91.5	48-131				
Ethylbenzene	2.31	0.0250	2.50	ND	92.6	45-135				
Toluene	2.47	0.0250	2.50	ND	98.7	48-130				
p-Xylene	2.51	0.0250	2.50	ND	101	43-135				
p,m-Xylene	4.94	0.0500	5.00	ND	98.7	43-135				
Total Xylenes	7.45	0.0250	7.50	ND	99.4	43-135				
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130				
Surrogate: Toluene-d8	0.485		0.500		104	70-130				
Matrix Spike Dup (2437002-MSD1)				Source: E	409052-	07	Prepared: 09	9/09/24 Ana	lyzed: 09/10/24	
Benzene	2.27	0.0250	2.50	ND	90.8	48-131	0.856	23	-	
Ethylbenzene	2.20	0.0250	2.50	ND	88.1	45-135	4.91	27		
Toluene	2.35	0.0250	2.50	ND	94.0	48-130	4.88	24		
p-Xylene	2.41	0.0250	2.50	ND	96.5	43-135	4.12	27		
o,m-Xylene	4.79	0.0500	5.00	ND	95.9	43-135	2.96	27		
Fotal Xylenes	7.21	0.0250	7.50	ND	96.1	43-135	3.35	27		
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130				
	0.774		0.000		20.7	,0150				
	0 511		0 500		102	70 120				
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.511 0.508		0.500 0.500		102 102	70-130 70-130				


# QC Summary Data

		QC DI		aly Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/13/2024 12:00:34PM
	No	onhalogenated O	rganics	s by EPA 8015	5D - 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 (2437002-BLK1)							Prepared: 0	9/09/24	Analyzed: 09/10/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
LCS (2437002-BS2)							Prepared: 0	9/09/24	Analyzed: 09/10/24
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.4	70-130			
Surrogate: Bromofluorobenzene	0.461		0.500		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			
Matrix Spike (2437002-MS2)				Source: E	409052-0	07	Prepared: 0	9/09/24	Analyzed: 09/10/24
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.4	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Matrix Spike Dup (2437002-MSD2)				Source: E	409052-0	07	Prepared: 0	9/09/24	Analyzed: 09/10/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130	2.74	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			



# **QC Summary Data**

		QC S	uIIIIII	ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/13/2024 12:00:34PM
	Nonh	alogenated Org	anics by	y EPA 8015D ·	- DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2436094-BLK1)							Prepared: 0	9/09/24 A	Analyzed: 09/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.7		50.0		89.3	50-200			
LCS (2436094-BS1)							Prepared: 0	9/09/24 A	Analyzed: 09/09/24
Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	46.4		50.0		92.9	50-200			
Matrix Spike (2436094-MS1)				Source: E4	409052-	01	Prepared: 0	9/09/24 A	Analyzed: 09/09/24
Diesel Range Organics (C10-C28)	225	25.0	250	ND	90.0	38-132			
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			
Matrix Spike Dup (2436094-MSD1)				Source: E4	409052-	01	Prepared: 0	9/09/24 A	Analyzed: 09/09/24
Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.5	38-132	0.635	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			



# **QC Summary Data**

			-						
Matador Resources, LLC.		Project Name:	]	Ray State Slot 4	ļ				Reported:
5400 LBJ Freeway, Suite 1500		Project Number	: 1	23003-0002					
Dallas TX, 75240		Project Manager	r: .	Ashley Gioveng	go				9/13/2024 12:00:34PM
		Anions	by EPA	300.0/9056	4				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 (2437011-BLK1)							Prepared: 0	9/09/24 A	Analyzed: 09/09/24
Chloride	ND	20.0							
LCS (2437011-BS1)							Prepared: 0	9/09/24 A	Analyzed: 09/09/24
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2437011-MS1)				Source:	E409052-	03	Prepared: 0	9/09/24 A	Analyzed: 09/10/24
Chloride	2250	40.0	250	1940	123	80-120			M4
Matrix Spike Dup (2437011-MSD1)				Source:	E409052-	03	Prepared: 0	9/09/24 A	Analyzed: 09/10/24
Chloride	2220	40.0	250	1940	112	80-120	1.24	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.



	_ •		
ces, LLC.	Project Name:	Ray State Slot 4	
ay, Suite 1500	Project Number:	23003-0002	Reported:
0	Project Manager:	Ashley Giovengo	09/13/24 12:00
	ces, LLC. ay, Suite 1500 0	ay, Suite 1500 Project Number:	ay, Suite 1500 Project Number: 23003-0002

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.



## **Chain of Custody**

ddress: 3122 National Parks Hwy ity, State, Zip: Carlsbad NM, 88220 hone: 575-988-0055	Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 8822	P Louis	Lak	wo#		2	Job	Num	ber	10	D 2D	3D	Std	NM C	O UT	TX
roject Manager: Ashley Giovengo ddress: 3122 National Parks Hwy ity, State, Zip: Carlsbad NM, 88220 hone: 575-988-0055	City, State, Zip: Carlsbad NM, 8822	P Louis	E	409	INC	1	1 1	INV		2307-002						
hone: 575-988-0055		20		14	103	6	a	ow	2-0	Juc			X	X		
City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055		20	_	_			5	1997								
Phone: 575-988-0055	Phone: 575-988-0055	-	_			_	Ana	lysis	and	Meth	bd				Program	
	Email: agiovengo@ensolum.com	n	-										4	SDWA	CWA	RCRA
	Miscellaneous:												-		1.1	1.0
mail: agiovengo@ensolum.com		-		8015	8015									Compliance	Y	or N
Sample Inform	nation	-		- 2	by 8	021	60	0.00	WN	XL-	etals		H	PWSID #		
Time Date Sampled Matrix No. of	Sample ID	eld	Lab Numbe	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			R	emarks	
Sampled		E E	Numbe	E	GF	BT	Ň	ਹਿ		10	22					
9:00 9/5/24 Soil 1 BG03- 7:06 9/5/24 Soil 1 BG03-	-0-	-	-			-	-		χ	-	-					
7:06 95/24 Soil 1 BG03-	-2		2						χ							
1:12 9/5/24 Soil 1 BG03-	- <i>U</i> 1		3						Х							
1:47 9/5/24 Soil 1 B603-	- 6'		4						X							
0:11 9/5/24 Soil 1 B603	- 9		5						X							
	- 10`		6						X							
	-12		7						1.							
		-	V			-	-	-	X	-			-		-	
11:13 9/5/24 Soil 1 BG03			0		-				X		-					
11:23 9/5/24 Soil 1 BG03			9						Х							
13:15 95/24 Soil 1 B603	- 18		10						X							
Additional Instructions: Please CC: cburton@ensolum.c	com, agiovengo@ensolum.com, ies	trella@	ensolu	m.co	m, bo	deal@	Dens	olum	n.com	, chai	nilton	@enso	olum.	com,		
osimmons@ensolum.com																
, (field sampler), attest to the validity and authenticity of this sample. I am awa ampled by: Chad Hamilton and Bowan Simmons	re that tampering with or intentionally mislabelin	g the sar	nple locatio	on, date	or tim	e of co	ollectio	in is co	nsidere	d fraud	and may	be groun	ids for I	legal action.		
Relinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time		-	1	-	Sample	s requiri	g thermal	preservat	ion mus	t be received on	ice the day	they are
19/6/24 10:1F	Received by: (Signature)	09.	6.24	1	015	5			sample	d or rece	ved packe	d in ice at	an avg	temp above 0 bu	t less than 6	5 °C on
Relinquished by (Signature) Date Time	Received by: (Signature)	Date	-6-7	Time	10	1.0								e Only		
		-	-6-0	-		48			Rece	ived o	on ice:	Y	)/ N			
Relinquished by: (Signature) Date 9-6-14-13-8	Received by: (Signature)	Date	17/2	Time	.00	1										
	> Kanadenning	-	(7/01	-	-	-	-		T1			<u>T2</u>		<u> </u>	3	
Refinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time					AVG	Temp	°c	4				
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Cont	tainer Ty	pe:g-	glass	, p - j	poly/	plasti	c, ag -	ambe	r glass,	v - V0/	A		-	
Note: Samples are discarded 14 days after results are reported unless	other arrangements are made. Hazardous sa													or the analys	s of the a	above
amples is applicable only to those samples received by the laboratory	with this COC. The liability of the laborator	y is limi	ted to the	amou	nt paid	d for c	on the	repor	rt.							-

Page \_ 1

of

## **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

	Matador Resources, LLC.	ate Received:	09/07/24	06:00	Work Order ID:	E409052
Phone:	(972) 371-5200 E	ate Logged In:	09/07/24	07:03	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com E	Due Date:	09/13/24	17:00 (4 day TAT)		
<u>Chain o</u>	f Custody (COC)					
. Does	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	ne COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes		Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did tł	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes	was cooler received in good condition?		Yes			
9. Was t'	ne sample(s) received intact, i.e., not broken?		Yes			
10. Wer(	custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If nc	visible ice, record the temperature. Actual sample te	mperature: 4°	С			
Sample	Container	· _				
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	-		NA			
	e head space less than 6-8 mm (pea sized or less)?					
16. Is th	a trip blank (TB) included for VOC analyses?		NA			
16. Is th 17. Was						
16. Is the 17. Was 18. Are 1	a trip blank (TB) included for VOC analyses?	s collected?	NA			
16. Is the 17. Was 18. Are 1	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container	s collected?	NA Yes			
16. Is the 17. Was 18. Are 1 19. Is the <b>Field L</b> a	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container		NA Yes			
16. Is the 17. Was 18. Are 1 19. Is the Field Ls 20. Were	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID?		NA Yes Yes Yes			
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		NA Yes Yes Yes Yes			
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were 1	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		NA Yes Yes Yes			
16. Is the 17. Was 18. Are 1 19. Is the Field La 20. Were 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? Preservation	nation:	NA Yes Yes Yes Yes			
16. Is the 17. Was 18. Are 19. Is the Field La 20. Were Sample 21. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were press	nation:	NA Yes Yes Yes Yes No			
16. Is the 17. Was 18. Are 1 19. Is the Field Lz 20. Were Sample 21. Does 22. Are 1	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were press sample(s) correctly preserved?	nation: erved?	NA Yes Yes Yes Yes No NA			
16. Is the 17. Was 18. Are 19. Is the Field Ls 20. Were 20. Were 21. Does 22. Are 24. Is lal	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met	nation: erved?	NA Yes Yes Yes Yes No			
16. Is the 17. Was 18. Are 19. Is the Field Ls 20. Werd 20. Werd 21. Does 22. Are 24. Is lal Multiph	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix_	nation: erved? als?	NA Yes Yes Yes Yes No NA No			
16. Is the 17. Was 18. Are 1 19. Is the Field Ls 20. Were 20. Were 21. Does 22. Are 2 24. Is lat Multiph 26. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase	nation: erved? als? ?	NA Yes Yes Yes Yes No NA No			
<ul> <li>16. Is the</li> <li>17. Was</li> <li>18. Are :</li> <li>19. Is the</li> <li>Field Lz</li> <li>20. Were</li> <li>20. Were</li> <li>21. Does</li> <li>22. Are :</li> <li>24. Is lal</li> <li>Multiph</li> <li>26. Does</li> <li>27. If ye</li> </ul>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase's s, does the COC specify which phase(s) is to be analyzed	nation: erved? als? ?	NA Yes Yes Yes Yes No NA No			
16. Is the 17. Was 18. Are : 19. Is the <b>Field Ls</b> 20. Were 20. Were 21. Does 22. Are : 24. Is lal <u>Multiph</u> 26. Does 27. If ye	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix is the sample have more than one phase, i.e., multiphase's s, does the COC specify which phase(s) is to be analyze ract Laboratory.	nation: erved? als? ? xd?	NA Yes Yes Yes Yes No NA No No			
16. Is the 17. Was 18. Are : 19. Is the <b>Field Ls</b> 20. Werd 20. Werd 21. Does 22. Are : 24. Is lal <b>Multiph</b> 26. Does 27. If ye <b>Subcont</b> 28. Are :	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase's s, does the COC specify which phase(s) is to be analyzed	nation: erved? als? ? ed?	NA Yes Yes Yes Yes No NA No	Subcontract Lab: NA		

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



•





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:

Ray State Slot 4

Work Order: E409068

Job Number: 23003-0002

Received: 9/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/16/24

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: 9/16/24

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

Project Name: Ray State Slot 4 Workorder: E409068 Date Received: 9/10/2024 6:00:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/10/2024 6:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
BG05-0'	6
BG05-2'	7
BG05-4'	8
BG05-6'	9
BG05-8'	10
BG05-10'	11
BG05-12'	12
BG05-14'	13
BG06-0'	14
BG06-2'	15
BG06-4'	16
BG06-6'	17
BG06-8'	18
BG06-10'	19
BG06-12'	20
BG06-14'	21
QC Summary Data	22
QC - Volatile Organic Compounds by EPA8260B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

•

# Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

#### **Sample Summarv**

		Sample Sum	mai y				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	Ray State Slot 4 23003-0002 Ashley Giovengo		<b>Reported:</b> 09/16/24 13:02		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		
3G05-0'	E409068-01A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
3G05-2'	E409068-02A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G05-4'	E409068-03A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G05-6'	E409068-04A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G05-8'	E409068-05A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G05-10'	E409068-06A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G05-12'	E409068-07A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G05-14'	E409068-08A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-0'	E409068-09A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-2'	E409068-10A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-4'	E409068-11A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-6'	E409068-12A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-8'	E409068-13A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-10'	E409068-14A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-12'	E409068-15A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		
G06-14'	E409068-16A	Soil	09/06/24	09/10/24	Glass Jar, 2 oz.		



		umpic D					
Matador Resources, LLC.	Project Name	e: Ray	State Slot 4	ŀ			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 2300	03-0002				Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Gioveng		9/16/2024 1:02:39PM		
		BG05-0'					
		E409068-01					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2437035
Benzene	ND	0.0250	1		09/10/24	09/11/24	
Ethylbenzene	ND	0.0250	1		09/10/24	09/11/24	
Foluene	ND	0.0250	1	. (	09/10/24	09/11/24	
p-Xylene	ND	0.0250	1	. (	09/10/24	09/11/24	
o,m-Xylene	ND	0.0500	1		09/10/24	09/11/24	
Total Xylenes	ND	0.0250	1	. (	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		91.1 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		103 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		91.1 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		103 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	mg/kg Analyst: NV				Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0	1	. (	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0	1		09/10/24	09/11/24	
Surrogate: n-Nonane		68.8 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2437045
Chloride	ND	20.0	1		09/10/24	09/10/24	

# Sample Data



Samp	le Data
~ mp	ic Data

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 4 )3-0002 ley Gioveng				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG05-2'					
		E409068-02					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2437035
Benzene	ND	0.0500	2	2	09/10/24	09/11/24	
Ethylbenzene	ND	0.0500	2	2	09/10/24	09/11/24	
Toluene	ND	0.0500	2	2	09/10/24	09/11/24	
o-Xylene	ND	0.0500	2	2	09/10/24	09/11/24	
,m-Xylene	ND	0.100	2	2	09/10/24	09/11/24	
Fotal Xylenes	ND	0.0500	2	2	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		92.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		09/10/24	09/11/24	
urrogate: Toluene-d8		104 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	40.0	2	2	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		92.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		104 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0	1	1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0	1	1	09/10/24	09/11/24	
urrogate: n-Nonane		75.7 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: D1			Batch: 2437045
Chloride	30.3	20.0	1	1	09/10/24	09/10/24	



Samp	le Data
~ mp	ic Data

	D.	ample D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot 4 )3-0002 ley Gioveng			<b>Reported:</b> 9/16/2024 1:02:39PM
		BG05-4'				
		E409068-03				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepar	ed Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	L	Analyst: IY		Batch: 2437035
Benzene	ND	0.0500	2	09/10/2	24 09/11/24	
Ethylbenzene	ND	0.0500	2	09/10/2	24 09/11/24	
Toluene	ND	0.0500	2	09/10/2	24 09/11/24	
p-Xylene	ND	0.0500	2	09/10/2	24 09/11/24	
o,m-Xylene	ND	0.100	2	09/10/2	24 09/11/24	
Total Xylenes	ND	0.0500	2	09/10/2	24 09/11/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130	09/10/2	24 09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	09/10/.	24 09/11/24	
Surrogate: Toluene-d8		103 %	70-130	09/10/2	24 09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/10/2	24 09/11/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130	09/10/2	24 09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	09/10/.	24 09/11/24	
Surrogate: Toluene-d8		103 %	70-130	09/10/2	24 09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/2	24 09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/2	24 09/11/24	
Surrogate: n-Nonane		70.2 %	50-200	09/10/2	24 09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2437045
Chloride	1690	40.0	2	09/10/2	24 09/10/24	



Samp	le Data
~ mp	ic Data

	0	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 4 03-0002 ley Giovengo	0		<b>Reported:</b> 9/16/2024 1:02:39PM
		BG05-6'				
		E409068-04				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY		Batch: 2437035
Benzene	ND	0.0500	2	09/10/24	09/11/24	
Chylbenzene	ND	0.0500	2	09/10/24	09/11/24	
oluene	ND	0.0500	2	09/10/24	09/11/24	
-Xylene	ND	0.0500	2	09/10/24	09/11/24	
,m-Xylene	ND	0.100	2	09/10/24	09/11/24	
Total Xylenes	ND	0.0500	2	09/10/24	09/11/24	
urrogate: Bromofluorobenzene		95.0 %	70-130	09/10/24	09/11/24	
urrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	09/10/24	09/11/24	
urrogate: Toluene-d8		103 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	analyst: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/10/24	09/11/24	
urrogate: Bromofluorobenzene		95.0 %	70-130	09/10/24	09/11/24	
urrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	09/10/24	09/11/24	
urrogate: Toluene-d8		103 %	70-130	09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	analyst: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/10/24	09/11/24	
'urrogate: n-Nonane		69.2 %	50-200	09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	analyst: DT		Batch: 2437045
Chloride	1380	40.0	2	09/10/24	09/10/24	



Sample Data	Samp	le Data	
-------------	------	---------	--

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 4 03-0002 ley Gioveng				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG05-8'					
		E409068-05					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2437035
Benzene	ND	0.0500	2	2	09/10/24	09/11/24	
Ethylbenzene	ND	0.0500	2	2	09/10/24	09/11/24	
oluene	ND	0.0500	2	2	09/10/24	09/11/24	
-Xylene	ND	0.0500	2	2	09/10/24	09/11/24	
,m-Xylene	ND	0.100		2	09/10/24	09/11/24	
Fotal Xylenes	ND	0.0500	2	2	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		93.0 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130		09/10/24	09/11/24	
urrogate: Toluene-d8		104 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	40.0	2	2	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		93.0 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		104 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	١V		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/11/24	
Surrogate: n-Nonane		69.1 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	DT		Batch: 2437045
Chloride	1280	20.0		1	09/10/24	09/10/24	



Sample Data	Sam	ole	Data	
-------------	-----	-----	------	--

	50	ample D	ala				
Matador Resources, LLC.I5400 LBJ Freeway, Suite 1500I		-	Ray State Slot 4 23003-0002				Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Gioven	igo			9/16/2024 1:02:39PM
		BG05-10'					
		E409068-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
Toluene	ND	0.0250		1	09/10/24	09/11/24	
p-Xylene	ND	0.0250		1	09/10/24	09/11/24	
o,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Fotal Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		94.2 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		98.1 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		94.2 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		98.1 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/11/24	
Surrogate: n-Nonane		72.8 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2437045
Chloride	640	20.0		1	09/10/24	09/10/24	



Sam	ple	Data	

	0	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 03-0002 ey Gioven				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG05-12'					
		E409068-07					
		Reporting					
Analyte	Result	Limit	Dih	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2437035
enzene	ND	0.0250		1	09/10/24	09/11/24	
thylbenzene	ND	0.0250		1	09/10/24	09/11/24	
oluene	ND	0.0250		1	09/10/24	09/11/24	
Xylene	ND	0.0250		1	09/10/24	09/11/24	
m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250		1	09/10/24	09/11/24	
urrogate: Bromofluorobenzene		95.9 %	70-130		09/10/24	09/11/24	
urrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		09/10/24	09/11/24	
urrogate: Toluene-d8		101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
urrogate: Bromofluorobenzene		95.9 %	70-130		09/10/24	09/11/24	
urrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		09/10/24	09/11/24	
urrogate: Toluene-d8		101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/11/24	
urrogate: n-Nonane		71.4 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2437045
Chloride	907	20.0		1	09/10/24	09/10/24	



Samp	le Data	
~ min	ic Data	

	6	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	per: 2300	State Slot 03-0002 ey Gioven				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG05-14'					
		E409068-08					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
oluene	ND	0.0250		1	09/10/24	09/11/24	
-Xylene	ND	0.0250		1	09/10/24	09/11/24	
,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250		1	09/10/24	09/11/24	
urrogate: Bromofluorobenzene		94.2 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		09/10/24	09/11/24	
urrogate: Toluene-d8		102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		94.2 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/11/24	
Surrogate: n-Nonane		64.4 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2437045
Chloride	138	20.0		1	09/10/24	09/10/24	



Sample Data	Samp	le Data	
-------------	------	---------	--

	N N	sample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Nam Project Num Project Mana	ber: 2300	State Slot )3-0002 ley Gioven				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG06-0'					
		E409068-09					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
thylbenzene	ND	0.0250		1	09/10/24	09/11/24	
oluene	ND	0.0250		1	09/10/24	09/11/24	
-Xylene	ND	0.0250		1	09/10/24	09/11/24	
,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
otal Xylenes	ND	0.0250		1	09/10/24	09/11/24	
urrogate: Bromofluorobenzene		92.4 %	70-130		09/10/24	09/11/24	
urrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		09/10/24	09/11/24	
urrogate: Toluene-d8		101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
urrogate: Bromofluorobenzene		92.4 %	70-130		09/10/24	09/11/24	
urrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		09/10/24	09/11/24	
urrogate: Toluene-d8		101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/11/24	
urrogate: n-Nonane		71.6 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2437045
Chloride	ND	20.0		1	09/10/24	09/10/24	



	D	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot 03-0002 ley Gioven				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG06-2'					
		E409068-10					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Anaryte	Kesuit	Liiiit	DI	ution	Frepared	Analyzed	INOLES
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
oluene	ND	0.0250		1	09/10/24	09/11/24	
-Xylene	ND	0.0250		1	09/10/24	09/11/24	
o,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		95.4 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		95.4 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/11/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/11/24	
Surrogate: n-Nonane		72.9 %	50-200		09/10/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2437045
Chloride	ND	20.0		1	09/10/24	09/10/24	



	56	imple D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG06-4'					
		E409068-11					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
Toluene	ND	0.0250		1	09/10/24	09/11/24	
p-Xylene	ND	0.0250		1	09/10/24	09/11/24	
o,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		92.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		92.8 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/12/24	
Surrogate: n-Nonane		68.9 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2437045
Chloride	1110	20.0		1	09/10/24	09/10/24	



Page 95 of 432

	S	ample D	ata				
Matador Resources, LLC.	Project Name		State Slot				
5400 LBJ Freeway, Suite 1500	Project Num		03-0002				Reported:
Dallas TX, 75240	Project Mana	iger: Ash	ley Giover	ngo			9/16/2024 1:02:39PM
		BG06-6'					
		E409068-12					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
Toluene	ND	0.0250		1	09/10/24	09/11/24	
o-Xylene	ND	0.0250		1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		95.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		99.2 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		95.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		99.2 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/12/24	
Surrogate: n-Nonane		73.2 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2437045
Chloride	1650	40.0		2	09/10/24	09/10/24	



	D	ample D					
Matador Resources, LLC.	Project Name	•	State Slot	4			Dementede
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Number: 23003-0002 Project Manager: Ashley Giovengo			190			<b>Reported:</b> 9/16/2024 1:02:39PM
Danas 177, 75270	Tiojeet Mana	gei. Asii	ley Glovel	igo			9/10/2021 1.02.99114
		BG06-8'					
		E409068-13					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
Toluene	ND	0.0250		1	09/10/24	09/11/24	
p-Xylene	ND	0.0250		1	09/10/24	09/11/24	
p,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		95.9 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		95.9 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/12/24	
Surrogate: n-Nonane		64.4 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2437045
Chloride	1380	20.0		1	09/10/24	09/10/24	



Samp	le Data
~ ump	ic Data

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	per: 2300	State Slot 03-0002 ey Giover				<b>Reported:</b> 9/16/2024 1:02:39PM
	5	BG06-10'	5	0			
		БС00-10 Е409068-14					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
oluene	ND	0.0250		1	09/10/24	09/11/24	
-Xylene	ND	0.0250		1	09/10/24	09/11/24	
,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Total Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		93.4 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		93.4 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		101 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/12/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/12/24	
Surrogate: n-Nonane		62.0 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2437045
Chloride	824	20.0		1	09/10/24	09/10/24	



Samp	le Data
~ ump	ic Data

	56	imple D	aca				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot 03-0002 ey Gioven				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG06-12'					
	-	E409068-15					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
Toluene	ND	0.0250		1	09/10/24	09/11/24	
-Xylene	ND	0.0250		1	09/10/24	09/11/24	
o,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Fotal Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		93.6 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		93.6 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		102 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/12/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/12/24	
Surrogate: n-Nonane		57.7 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2437045
Chloride	601	20.0		1	09/10/24	09/10/24	



	St	imple D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot 03-0002 ley Gioven				<b>Reported:</b> 9/16/2024 1:02:39PM
		BG06-14'					
	-	E409068-16					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Benzene	ND	0.0250		1	09/10/24	09/11/24	
Ethylbenzene	ND	0.0250		1	09/10/24	09/11/24	
Toluene	ND	0.0250		1	09/10/24	09/11/24	
o-Xylene	ND	0.0250		1	09/10/24	09/11/24	
o,m-Xylene	ND	0.0500		1	09/10/24	09/11/24	
Fotal Xylenes	ND	0.0250		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		92.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2437035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/10/24	09/11/24	
Surrogate: Bromofluorobenzene		92.5 %	70-130		09/10/24	09/11/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		09/10/24	09/11/24	
Surrogate: Toluene-d8		100 %	70-130		09/10/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2437043
Diesel Range Organics (C10-C28)	ND	25.0		1	09/10/24	09/12/24	
Dil Range Organics (C28-C36)	ND	50.0		1	09/10/24	09/12/24	
Surrogate: n-Nonane		62.7 %	50-200		09/10/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2437045
Chloride	213	20.0		1	09/10/24	09/11/24	



# QC Summary Data

		VC DI		iry Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		ay State Slot 4 6003-0002					Reported:
Dallas TX, 75240		Project Manager:	As	shley Giovengo				9/	16/2024 1:02:39PM
		Volatile Organic	Analyst: IY						
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2437035-BLK1)							Prepared: 0	9/10/24 Ana	yzed: 09/11/24
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		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dictioroetnane-u4 Surrogate: Toluene-d8	0.506		0.500		101	70-130			
0	0.500		0.000		101	, 0-150	_		
LCS (2437035-BS1)							Prepared: 0	9/10/24 Ana	yzed: 09/11/24
Benzene	2.27	0.0250	2.50		90.8	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.2	70-130			
Toluene	2.44	0.0250	2.50		97.8	70-130			
o-Xylene	2.44	0.0250	2.50		97.7	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.34	0.0250	7.50		97.8	70-130			
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike (2437035-MS1)				Source: E	409068-	12	Prepared: 0	9/10/24 Ana	yzed: 09/11/24
Benzene	2.21	0.0250	2.50	ND	88.4	48-131			
Ethylbenzene	2.22	0.0250	2.50	ND	88.8	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.43	0.0250	2.50	ND	97.1	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.8	43-135			
Total Xylenes	7.32	0.0250	7.50	ND	97.5	43-135			
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.472		0.500		100	70-130			
Matrix Spike Dup (2437035-MSD1)				Source: E4	409068-	12	Prepared: 0	9/10/24 Ana	yzed: 09/11/24
Benzene	2.27	0.0250	2.50	ND	90.9	48-131	2.79	23	•
Ethylbenzene	2.29	0.0250	2.50	ND	91.5	45-135	3.02	27	
Toluene	2.42	0.0250	2.50	ND	96.8	48-130	2.91	24	
	2.42	0.0250	2.50	ND	90.8 99.6	43-130	2.62	24	
o-Xylene	5.02		5.00	ND	100	43-135	2.62	27	
p,m-Xylene	5.02 7.51	0.0500	5.00 7.50	ND	100	43-135	2.57	27	
Total Xylenes		0.0250		IND			2.39	21	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496 0.498		0.500 0.500		99.2 99.6	70-130 70-130			



# **QC Summary Data**

		QC DI		v					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 3003-0002 shley Giovengo					<b>Reported:</b> 9/16/2024 1:02:39PM
	No	onhalogenated O	rganics	by EPA 8015	5D - GF	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N .
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2437035-BLK1)							Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
LCS (2437035-BS2)							Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
Matrix Spike (2437035-MS2)				Source: E	409068-1	12	Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
Matrix Spike Dup (2437035-MSD2)				Source: E	409068-1	12	Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130	1.47	20	
	0.482		0.500		96.3	70-130			
Surrogate: Bromofluorobenzene	0.762								
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			



# **QC Summary Data**

		QC D		lary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/16/2024 1:02:39PM
	Nonh	alogenated Org	anics b	y EPA 8015D -	- DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2437043-BLK1)							Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.0		50.0		77.9	50-200			
LCS (2437043-BS1)							Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Diesel Range Organics (C10-C28)	212	25.0	250		84.9	38-132			
Surrogate: n-Nonane	39.4		50.0		78.8	50-200			
Matrix Spike (2437043-MS1)				Source: E4	409068-	04	Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Diesel Range Organics (C10-C28)	149	25.0	250	ND	59.5	38-132			
Surrogate: n-Nonane	42.9		50.0		85.7	50-200			
Matrix Spike Dup (2437043-MSD1)				Source: E4	409068-	04	Prepared: 0	9/10/24 A	Analyzed: 09/11/24
Diesel Range Organics (C10-C28)	162	25.0	250	ND	64.9	38-132	8.67	20	
Surrogate: n-Nonane	33.2		50.0		66.4	50-200			



# **QC Summary Data**

		<b>L</b> = 10	•••••		•				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Ray State Slot 4 23003-0002 Ashley Giovenge					<b>Reported:</b> 9/16/2024 1:02:39F
		Anions	by EPA	300.0/9056A					Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2437045-BLK1)							Prepared: 0	9/10/24 /	Analyzed: 09/10/24
Chloride	ND	20.0							
LCS (2437045-BS1)							Prepared: 0	9/10/24	Analyzed: 09/10/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2437045-MS1)				Source: l	E409068-	07	Prepared: 0	9/10/24	Analyzed: 09/10/24
Chloride	1140	20.0	250	907	92.6	80-120			
Matrix Spike Dup (2437045-MSD1)				Source: l	E409068-	07	Prepared: 0	9/10/24	Analyzed: 09/10/24
Chloride	1150	20.0	250	907	99.1	80-120	1.43	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.



	2 •••••••		
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/16/24 13:02

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



### **Chain of Custody**

	Clier	nt Inform	ation	Invoice Information	1		Invoice Information Lab Use Only TAT									TAT	State				
	atador Prod		ompany	Company: Ensolum LLC	1		Lab V					Num			1D	2D 3D St	d NM CO UT TX				
	ay State Slo		1.190	Address: 3122 National Parks H			E40	90	2016	3	230	203	3-00	202							
	anager: Asl 3122 Nation			<u>City, State, Zip: Carlsbad NM, 8</u> Phone: 575-988-0055	3220		Г				Ana	lysis	and	Met	hod		EPA Program				
	, Zip: Carls			Email: agiovengo@ensolum.c	om		ł	T		1	7.11.0	1,010	unu				SDWA CWA RCRA				
ne: 5	75-988-005	5		Miscellaneous:																	
I: ag	ovengo@e	nsolum.co	om		-			8015	8015								Compliance Y or N PWSID #				
				Sample Information	-		-	þ	D by 8	3021	260	300.0	WN	×1-9	letals		PWSID #				
ne bled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Lal Lal	b ber	DRO/ORO	GRO/DRO	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals		Page				
29	1/6/24	Soil	1	BG05-0		1							X								
15	1	1		8605-2		2	2						X								
.28				B605-4°		3	3						X								
. 34				BG05-6		L	1						χ								
41				B605-8		5	5						X								
. 50				BG05 - 10'		6	0						X								
: 56				BG05 - 12°		7							χ								
.07				BG05-14		8	3						X								
33				BG06-0		9							χ								
:54				B606 - 2'		10	2						X								
			ase CC: cl	ourton@ensolum.com, agiovengo@ensolum.com, o	hamilte	on@er	nsolu	m.co	om, ie	estre	ella@	Pens	olum	.com	n, bde	al@ensolu	im.com,				
d samp	s@ensolum er), attest to the	e validity and	authenticity	of this sample. I am aware that tampering with or intentionally mislab	eling the sa	ample loc	cation,	date o	or time	of col	lection	n is con	sidere	d fraud	d and m	ay be grounds	for legal action.				
led by:				Simmons	10.1			-		_	-		Consta				must be received on ice the day they are				
quishe	d by: (Signatur	re)	Date	19/24 10:15 Received by: (Signature)	eg C	9-7	14	Time ] (	15				sample	d or rec	eived pa	the state of the state of the state of the	avg temp above 0 but less than 6 °C on				
quishe	d by (Signatu	re)	Date	Time Received by: (Signature)	Received by: (Signature) Date Time Lab		Use Only														
	refle G	4				.9.2			45				Rece	eived	on ic	e: 🕜/	Ν				
puishe	d by: (Signatu	111	Date	9.24 2400 Received by: (Signature)	Date	(0-2		Time	00	0			Т1			T2	T3				
quishe	d by: (Signatur	re)	Date		Date		-	Time		-			11		-	12					
			_	11			-		10		alit		AVG			4	1				
				eous, <b>0</b> - Other Its are reported unless other arrangements are made. Hazardou		2 2 U 2 U 2				A	0000			amb	er gla	ss, v - VOA	rt for the analysis of the above				
				eived by the laboratory with this COC. The liability of the labora										enen	- enpe		rt for the analysis of the above				

Released to Imaging: 4/21/2025 3:13:23 PM

#### **Chain of Custody**

Client Information	Invoice Information	Invoice Information Lab Use Only TAT					TAT	State						
lient: Matador Production Company	Company: Ensolum LLC		Lat	o WO	#		Job	Vuml	ber		1D 2	D 3D 5	Std	NM CO UT TX
roject: Ray State Slot 4	Address: 3122 National Parks Hw	1		409		8	23	003	-00			X		X
roject Manager: Ashley Giovengo	City, State, Zip: Carlsbad NM, 882	20	_									10.00		
ddress: 3122 National Parks Hwy	Phone: 575-988-0055		_		-		Ana	lysis	and I	Meth	nod			EPA Program
ity, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com	1	-										SD	WA CWA RCRA
none: 575-988-0055	Miscellaneous:												-	
nail: agiovengo@ensolum.com				8015	015									npliance Y or I SID #
Committee Commit	- Information	-		- 2	by 8	021	60	0.00	M	×.	etals		PVV	310 #
	e Information	6 5	Lab	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
Time Date Sampled Matrix Containers	Sample ID	Field	lumbe	RO/	SRO/	BTEX	/00	Chlor	BGDC	CEQ	SCRA			
			1.				-	-	V	-	-			
1:04 9/6/24 Soil 2 BG	206-4		11				-		X					
			10						V					
GII BO	206-6		12		1				X					
	- 01 - 11		12						V					
1:18 BC	306-6		13		-				A	-	-		-	
1:44 BG	Loc - 10'		14						V					
	006 10		11	-	-		-		A	-	-			
11:51 BC	506-12		15						X					
									V					
1:59       B(	306-19		16	>		1		_	A					
				_								-		
				-	-	-		-		-		-	-	
							10							
		4		-	-		-		-	-	-			
									N					
dditional Instructions: Please CC: cburton@en	solum.com. agiovengo@ensolum.com. ch	amilton	@enso	olum.	.com,	iestr	ella@	Dens	olum	.com	ı, bde	al@enso	lum.co	m,
simmons@ensolum.com														
field sampler), attest to the validity and authenticity of this sample.	. I am aware that tampering with or intentionally mislabeli	g the samp	ole locati	ion, dat	e or tim	ne of co	llection	n is cor	nsidere	d frau	d and m	ay be ground	ds for legal	laction.
mpled by:Chad Hamilton <u>Bowan Simmor</u>	15	1					-		Come la		-los al an		ian must ha	received on ice the day they are
elinquished by: (Signature) Date T 9/9/24	ime Acceived by (Signature)	Date	1.24	Tim	Ol	2								p above 0 but less than 6 °C on
	Time Received by; (Signature)	Date	1.001	Tim	e	-	1		subsea	uent da	ivs	la	b Use O	nlv
elinquished by (Signature) Vichelle Gonzales 9-9.24	1630 June Hillso		9.2	y	164	15			Rece	eived	on ice		/ N	
Relingqished by: (Signature) Date T	ime Received by: (Signature)	Date	10	Tim			1					-		
Indrew Hulls 9.9.24	2400 Willyth IL Hell	9.1	0.20	10	loc	00			T1					<u>T3</u>
	Time Received by: (Signature)	Date		Tim								U		
				- 1					AVG	Tem	np °C_	1		
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										amt	er gla	ss, v - VO	A port for t	he analysis of the above
Note: Samples are discarded 14 days after results are reported amples is applicable only to those samples received by the la	ed unless other arrangements are made. Hazardous a aboratory with this COC. The liability of the laboratory	amples w	ed to th	e amo	unt na	id for	on the	repo	at the	cilen	it exhel	ise. me re	portiont	he analysis of the above
amples is applicable only to those samples received by the l	abbratory with this coc. The hability of the laborato	y is mind		o unio	one pu			. opo						

## **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Da	te Received:	09/10/24	06:00	Work Order ID:	E409068
Phone:	(972) 371-5200 Da	te Logged In:	09/10/24	05:36	Logged In By:	Keyliegh Hall
Email:		e Date:	09/16/24	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
1. Does 1	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comment	ts/Resolution
Sample '	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes			
12 If no	minutes of sampling visible ice, record the temperature. Actual sample ten	mornturo: 1º	C			
		iperature. <u>4</u>	<u>c</u>			
	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 containers	collected?	Yes			
Field La		concerea.	105			
	e field sample labels filled out with the minimum information	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10	<b>.</b> -			
	s the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?	1-9	NA			
	o filteration required and/or requested for dissolved meta	15 ?	No			
	ase Sample Matrix					
	s 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 analyzed	1?	NA			
<u>Subcont</u>	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory?		No			
20 Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: N/A		



envirotech Inc.

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

•





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:

Ray State Slot 4

Work Order: E409189

Job Number: 23003-0002

Received: 9/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/27/24

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: 9/27/24

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

Project Name: Ray State Slot 4 Workorder: E409189 Date Received: 9/23/2024 5:30:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2024 5:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
BG07 - 0'	6
BG07 - 2'	7
BG07 - 4'	8
BG07 - 6'	9
BG07 - 8'	10
BG07 - 10'	11
BG07 - 12'	12
BG07 - 14'	13
BG07 - 15'	14
BG04 - 0'	15
BG04 - 2'	16
BG04 - 4'	17
BG04 - 6'	18
BG04 - 8'	19
BG04 - 10'	20
BG04 - 12'	21
BG04 - 14'	22
QC Summary Data	23
QC - Volatile Organics by EPA 8021B	23
QC - Nonhalogenated Organics by EPA 8015D - GRO	24

•

# Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	25
QC - Anions by EPA 300.0/9056A	26
Definitions and Notes	27
Chain of Custody etc.	28

#### Sample Summary

		sample sum	mary		
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	Ray State Slot 4 23003-0002 Ashley Giovengo		<b>Reported:</b> 09/27/24 13:13
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG07 - 0'	E409189-01A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G07 - 2'	E409189-02A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
BG07 - 4'	E409189-03A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
BG07 - 6'	E409189-04A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
BG07 - 8'	E409189-05A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
BG07 - 10'	E409189-06A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G07 - 12'	E409189-07A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G07 - 14'	E409189-08A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
BG07 - 15'	E409189-09A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G04 - 0'	E409189-10A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
BG04 - 2'	E409189-11A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G04 - 4'	E409189-12A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
BG04 - 6'	E409189-13A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G04 - 8'	E409189-14A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G04 - 10'	E409189-15A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G04 - 12'	E409189-16A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
3G04 - 14'	E409189-17A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.



	S	Sample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 230	State Slot 4 03-0002 ley Gioveng				<b>Reported:</b> 9/27/2024 1:13:18PM
		BG07 - 0'					
		E409189-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	CG		Batch: 2439003
Benzene	ND	0.0250	1	l	09/23/24	09/26/24	
Ethylbenzene	ND	0.0250	1	l	09/23/24	09/26/24	
Toluene	ND	0.0250	1	l	09/23/24	09/26/24	
p-Xylene	ND	0.0250	1	l	09/23/24	09/26/24	
o,m-Xylene	ND	0.0500	1	l	09/23/24	09/26/24	
Total Xylenes	ND	0.0250	1	l	09/23/24	09/26/24	
Surrogate: 4-Bromochlorobenzene-PID		89.6 %	70-130		09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	09/23/24	09/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130		09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438163		
Diesel Range Organics (C10-C28)	ND	25.0	1	l	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	l	09/21/24	09/26/24	
Surrogate: n-Nonane		103 %	50-200		09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2439014
Chloride	140	20.0	1	l	09/23/24	09/23/24	

# envirotech Inc.

#### Sample Data

	Si	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
		BG07 - 2'				
		E409189-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/26/24	
Foluene	ND	0.0250	1	09/23/24	09/26/24	
p-Xylene	ND	0.0250	1	09/23/24	09/26/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/26/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/26/24	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	Batch: 2438163		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		98.9 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2439014
Chloride	813	20.0	1	09/23/24	09/23/24	



#### Sample Data

	Di Di	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
		BG07 - 4'				
		E409189-03				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/26/24	
Foluene	ND	0.0250	1	09/23/24	09/26/24	
p-Xylene	ND	0.0250	1	09/23/24	09/26/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/26/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/26/24	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: CG			Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	Batch: 2438163		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		96.5 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2439014
Chloride	1440	20.0	1	09/23/24	09/23/24	



#### Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
		BG07 - 6'				
		E409189-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/26/24	
Foluene	ND	0.0250	1	09/23/24	09/26/24	
p-Xylene	ND	0.0250	1	09/23/24	09/26/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/26/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/26/24	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: CG			Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2438163		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		91.9 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2439014
Chloride	2040	40.0	2	09/23/24	09/23/24	



#### Sample Data

	5	ampic D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
		BG07 - 8'				
		E409189-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/26/24	
thylbenzene	ND	0.0250	1	09/23/24	09/26/24	
oluene	ND	0.0250	1	09/23/24	09/26/24	
-Xylene	ND	0.0250	1	09/23/24	09/26/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/26/24	
urrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/26/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: AF			Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
urrogate: n-Nonane		98.4 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2439014
Chloride	2290	40.0	2	09/23/24	09/23/24	



#### Sample Data

	50	imple D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
	]	BG07 - 10'				
	]	E409189-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/26/24	
Toluene	ND	0.0250	1	09/23/24	09/26/24	
p-Xylene	ND	0.0250	1	09/23/24	09/26/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/26/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/26/24	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: AF			Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		101 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2439014
Chloride	1890	40.0	2	09/23/24	09/23/24	

#### Sample Data

	50	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
	-	BG07 - 12'				
		E409189-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/26/24	
Foluene	ND	0.0250	1	09/23/24	09/26/24	
p-Xylene	ND	0.0250	1	09/23/24	09/26/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/26/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/26/24	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	09/23/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2438163		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		95.8 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2439014
Chloride	81.6	20.0	1	09/23/24	09/23/24	



#### Sample Data

		impic D	aca			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
	]	BG07 - 14'				
	-	E409189-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Batch: 2438163		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		99.2 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2439014
Chloride	766	20.0	1	09/23/24	09/23/24	



#### Sample Data

	50	imple D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
	]	BG07 - 15'				
	]	E409189-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		92.3 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2438163		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		96.8 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2439014
Chloride	839	20.0	1	09/23/24	09/23/24	



#### Sample Data

	50	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
		BG04 - 0'				
		E409189-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		97.6 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2439014
Chloride	ND	20.0	1	09/23/24	09/23/24	



#### Sample Data

	5	ample D	ลเล			
Matador Resources, LLC.	Project Name:	•	State Slot 4			D ()
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Numb Project Manag		03-0002 ley Giovengo		<b>Reported:</b> 9/27/2024 1:13:18PM	
Danas 1X, 75240	Project Manag	ger: Asn	ley Glovengo			9/2//2024 1:15:18PW
		BG04 - 2'				
		E409189-11				
		Reporting				
Analyte	Result	Limit	Dilutior	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Foluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		97.4 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2439014
Chloride	830	20.0	1	09/23/24	09/23/24	



#### Sample Data

	Si	ample D	ala			
Matador Resources, LLC.	Project Name:	•	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002		Reported:	
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/27/2024 1:13:18PM
		BG04 - 4'				
		E409189-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Foluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		89.7 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2439014
Chloride	1610	20.0	1	09/23/24	09/23/24	



#### Sample Data

	5	ample D	ลเล			
Matador Resources, LLC.	Project Name:	•	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002	Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/27/2024 1:13:18PM
		BG04 - 6'				
		E409189-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		71.7 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2439014
Chloride	1590	20.0	1	09/23/24	09/23/24	



#### Sample Data

	Si	ample D	ลเล			
Matador Resources, LLC.	Project Name:	•	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002		Reported:	
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/27/2024 1:13:18PM
		BG04 - 8'				
		E409189-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		99.1 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2439014
Chloride	1140	20.0	1	09/23/24	09/23/24	



#### Sample Data

		mpic D	uta			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manage	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
	]	BG04 - 10'				
	]	E409189-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		101 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2439014
Chloride	524	20.0	1	09/23/24	09/23/24	



#### Sample Data

	50	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
	]	BG04 - 12'				
	-	E409189-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		100 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2439014
Chloride	1290	20.0	1	09/23/24	09/24/24	



#### Sample Data

	Da	imple D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manage	r: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/27/2024 1:13:18PM
	]	BG04 - 14'				
	]	E409189-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: CG		Batch: 2439003
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Fotal Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2439003
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: AF		Batch: 2438163
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Gurrogate: n-Nonane		102 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2439014
Chloride	509	20.0	1	09/23/24	09/24/24	



# **QC Summary Data**

		$\mathbf{x} \in \mathcal{Z}$			-				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 3003-0002 shley Giovengo	0				<b>Reported:</b> 9/27/2024 1:13:18PM
		Volatile O	rganics <b>k</b>	oy EPA 802	1B				Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ilig/kg	ilig/kg	iiig/kg	ing/kg	70	70	70	70	Inotes
Blank (2439003-BLK1)						]	Prepared: 0	9/23/24 A	analyzed: 09/26/24
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	7.30		8.00		91.2	70-130			
LCS (2439003-BS1)						]	Prepared: 0	9/23/24 A	analyzed: 09/26/24
Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.98	0.0250	5.00		99.5	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130			
Total Xylenes	14.8	0.0250	15.0		98.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			
LCS Dup (2439003-BSD1)						1	Prepared: 0	9/23/24 A	analyzed: 09/26/24
Benzene	4.51	0.0250	5.00		90.2	70-130	11.6	20	
Ethylbenzene	4.33	0.0250	5.00		86.6	70-130	11.7	20	
Toluene	4.43	0.0250	5.00		88.5	70-130	11.7	20	
o-Xylene	4.31	0.0250	5.00		86.2	70-130	11.8	20	
p,m-Xylene	8.80	0.0500	10.0		88.0	70-130	11.8	20	
Total Xylenes	13.1	0.0250	15.0		87.4	70-130	11.8	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			



## **QC Summary Data**

		$\mathbf{x} = \mathbf{x}$							
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number	: 2	Ray State Slot 4 23003-0002					<b>Reported:</b> 9/27/2024 1:13:18PM
Dallas TX, 75240		Project Manage	r: A	Ashley Gioveng	<i>zo</i>				9/2//2024 1:13:18PM
	No	onhalogenated	Organics	s by EPA 80	15D - G	RO			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 (2439003-BLK1)							Prepared: 0	9/23/24 A	analyzed: 09/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			
LCS (2439003-BS2)							Prepared: 0	9/23/24 A	analyzed: 09/26/24
Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			
LCS Dup (2439003-BSD2)							Prepared: 0	9/23/24 A	analyzed: 09/26/24
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.1	70-130	14.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			



## **QC Summary Data**

Trepter transportTrepter transportAnalysi: AFAnalyteResult Result mg/kgSpike Limit mg/kgSource Result mg/kgRec mg/kgRec %Rec %RPD Limit Limit %RPD Limit Limit %RPD Limit Limit %NotesBlank (2438163-BLK1)Prepared: 09/21/24 50.0ND 50.025.0Prepared: 09/21/24 50.0Analyzed: 09/26/24 MotesBlank (2438163-BS1)Prepared: 51.250.0102 50.050.0Prepared: 09/21/24 50.0Analyzed: 09/26/24 MotesCS (2438163-BS1)Prepared: 51.550.0103 50.038-132Prepared: 09/21/24 Malyzed: 09/26/24 Malyzed: 09/26/2			QU D	u 111111	ing Dutu					
Trepter transportTrepter transportAnalysi: AFAnalyteResult Result mg/kgSpike Limit mg/kgSource Result mg/kgRec mg/kgRec %Rec %RPD Limit Limit %RPD Limit Limit %RPD Limit Limit %NotesBlank (2438163-BLK1)Prepared: 09/21/24 50.0ND 50.025.0Prepared: 09/21/24 50.0Analyzed: 09/26/24 MotesBlank (2438163-BS1)Prepared: 51.250.0102 50.050.0Prepared: 09/21/24 50.0Analyzed: 09/26/24 MotesCS (2438163-BS1)Prepared: 51.550.0103 50.038-132Prepared: 09/21/24 Malyzed: 09/26/24 Malyzed: 09/26/2			5		5					Reported:
AnalyteReporting $Result$ $mg/kg$ Spike $Limit$ Source $Result$ $mg/kg$ Rec $Rec$ $mg/kg$ Rec $Rec$ $Mg/kg$ Rec $Mg/kg$ Rec $Mg/$	Dallas TX, 75240		Project Manager:	А	shley Giovengo					9/27/2024 1:13:18PM
Analyte     Result mg/kg     Limit mg/kg     Level mg/kg     Result mg/kg     Limit mg/kg     Result mg/kg     Limit mg/kg     Result mg/kg		Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: AF
Blank (2438163-BLK1) Prepared: 09/21/24 Analyzed: 09/26/24   biesel Range Organics (C10-C28) ND 25.0   bil Range Organics (C28-C36) ND 50.0   uurrogate: n-Nonane 51.2 50.0   LCS (2438163-BS1) Prepared: 09/21/24 Analyzed: 09/26/24   biesel Range Organics (C10-C28) 257 25.0   257 25.0 250 103   Jurrogate: n-Nonane 51.5 50.0   LCS (2438163-BS1) Prepared: 09/21/24 Analyzed: 09/26/24   biesel Range Organics (C10-C28) 257 25.0   LCS Dup (2438163-BSD1) Prepared: 09/21/24 Analyzed: 09/26/24   biesel Range Organics (C10-C28) 261 25.0   261 25.0 250 104	Analyte	Result		•		Rec		RPD		
ND   25.0     ND   50.0     ND   50.0     ND   50.0     Level (2438163-BS1)   Prepared: 09/21/24 Analyzed: 09/26/24     LCS Dup (2438163-BSD1)   Prepared: 09/21/24 Analyzed: 09/26/24     LCS Dup (2438163-BSD1)   Prepared: 09/21/24 Analyzed: 09/26/24     LCS Dup (2438163-BSD1)   Prepared: 09/21/24 Analyzed: 09/26/24		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
ND 50.0   Wrogate: n-Nonane 51.2   S0.0 102   LCS (2438163-BS1) Prepared: 09/21/24   Vissel Range Organics (C10-C28) 257   25.0 250   103 38-132   Vissel Range Organics (C10-C28) 51.5   50.0 103   103 50-200	Blank (2438163-BLK1)							Prepared: 0	9/21/24 /	Analyzed: 09/26/24
Integr organics (ESC 626 (55)) 51.2 50.0 102 50-200   Integr organics (C10-C28) 257 25.0 250 103 38-132   Integr organics (C10-C28) 257 25.0 250 103 38-132   Integr organics (C10-C28) 257 25.0 250 103 38-132   Integr organics (C10-C28) 261 25.0 250 104 38-132 1.34 20	Diesel Range Organics (C10-C28)	ND	25.0							
LCS (2438163-BS1) Prepared: 09/21/24 Analyzed: 09/26/24   biesel Range Organics (C10-C28) 257 25.0 250 103 38-132   burrogate: n-Nonane 51.5 50.0 103 50-200   LCS Dup (2438163-BSD1) Prepared: 09/21/24 Analyzed: 09/26/24   biesel Range Organics (C10-C28) 261 25.0 250 104 38-132 1.34 20	Oil Range Organics (C28-C36)	ND	50.0							
Direct Range Organics (C10-C28)   257   25.0   250   103   38-132     Durrogate: n-Nonane   51.5   50.0   103   50-200     LCS Dup (2438163-BSD1)   Prepared: 09/21/24 Analyzed: 09/26/24     Diesel Range Organics (C10-C28)   261   25.0   250   104   38-132   1.34   20	Surrogate: n-Nonane	51.2		50.0		102	50-200			
Introduction S1.5 S0.0 103 S0-200   Introduction Introduction Introduction Introduction   Introduction S1.5 S0.0 103 S0-200   Introduction Prepared: 09/21/24 Analyzed: 09/26/24   Diseel Range Organics (C10-C28) 261 25.0 250 104 38-132 1.34 20	LCS (2438163-BS1)							Prepared: 0	9/21/24 /	Analyzed: 09/26/24
LCS Dup (2438163-BSD1) Prepared: 09/21/24 Analyzed: 09/26/24   Dissel Range Organics (C10-C28) 261 25.0 250 104 38-132 1.34 20	Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Diesel Range Organics (C10-C28) 261 25.0 250 104 38-132 1.34 20	Surrogate: n-Nonane	51.5		50.0		103	50-200			
······································	LCS Dup (2438163-BSD1)							Prepared: 0	9/21/24 /	Analyzed: 09/26/24
urrogate: n-Nonane 51.6 50.0 103 50-200	Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132	1.34	20	
	Surrogate: n-Nonane	51.6		50.0		103	50-200			



#### **QC Summary Data**

			•	J –	-					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					<b>Report</b> 9/27/2024 1:	
Dallas TX, 75240		Project Manager:	: 1	Ashley Gioveng	0				9/2//2024 1:	13:18PM
		Anions	by EPA	300.0/9056A					Analyst: JM	4
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Not	es
Blank (2439014-BLK1)							Prepared: 0	9/23/24 <i>I</i>	Analyzed: 09/2	23/24
Chloride	ND	20.0								
LCS (2439014-BS1)							Prepared: 0	9/23/24 <i>A</i>	Analyzed: 09/2	23/24
Chloride	262	20.0	250		105	90-110				
Matrix Spike (2439014-MS1)				Source: ]	E409189-(	02	Prepared: 0	9/23/24 A	Analyzed: 09/2	23/24
Chloride	1070	20.0	250	813	102	80-120				
Matrix Spike Dup (2439014-MSD1)				Source:	E409189-(	02	Prepared: 0	9/23/24 <i>A</i>	Analyzed: 09/2	23/24
Chloride	1060	20.0	250	813	97.5	80-120	1.12	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.



Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/27/24 13:13

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



#### **Chain of Custody**

Page \_\_\_\_\_ of \_\_\_\_

	Clier	nt Inform	nation		Invoice Inform			La	b Us	e On	ly				TAT	State			
	latador Prod				Company: Ensolum LLC		_ Lab	WO#	1	0	Job	Num	ber	~~~~	1D 20	3D St			
	Ray Sta				Address: 3122 National Pa	And the second sec	- EC	toA	18	9	23	000	510	W		X			
	lanager: Asl				City, State, Zip: Carlsbad N	M, 88220	-	-			4.00	hucie	and	Moth	hod		EPA Program		
	3122 Nation e, Zip: Carls				Phone: 575-988-0055 Email: agiovengo@ensol	um com	-	-			Alla	19515	anu	wet		TT	SDWA CWA RCRA		
	75-988-005	um.com	-																
	giovengo@e		om		Miscellaneous:			S	5								Compliance Y or N		
					-			y 8015	y 8015	1	0	0.0	5	×	als		PWSID #		
				Sample Inf	ormation	E J		DRO b	ORO b	y 802	y 826	de 30	C-N	- 500	8 Met		Demode		
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Field	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		
0:06	9/19/24	Soil	Den 1	BGO	7-0`		1						χ						
0:10			1	BGO	7-2		2						X						
10:16				BGG	7-4'		3						X						
10:24				BGO	7-6`		4						X						
10:36				BGO	7-8		5						X						
0:49				BGO	7-10		Q						X						
10:54				BGC	07-12		7						X						
1:13				BGC	17-14		8						X						
11:16				BGG	07-15		9						X						
12:41	(			BGC	18-0°		10						X						
Addition bsimmo , (field sam	al Instructions@ensolum	n.com ne validity an	d authenticity		m.com, agiovengo@ensolum.c aware that tampering with or intentionally														
	ed by: (Signatu		Date	120/24 DE	Received by: (Signature)	ralec G.	0-24	Time 6	80	1			sample		eived packe	· contraction of the contraction	must be received on ice the day they are avg temp above 0 but less than 6 $^\circ{\rm C}$ on		
	ed by: (Signatu	ire)		2024 18	30 Received by: (Signature)	Date 9.2	0.24	Time	83	ò						Lab l	Jse Only N		
Relinquist	ed by: (Signatu	ire)	Date	Time	100 Received by: (Signature)	leb 9-2	3.24	Time	53				<u>T1</u>			<u>T2</u>	<u>T3</u>		
Relinquist	ed by: (Signatu	ıre)	Date		Received by: (Signature)	Date		Time					AVG			4			
	trix: S - Soil, Sd - S				ess other arrangements are made. Ha		iner Typ							- amb	er glass	v - VOA	rt for the analysis of the above		

#### **Chain of Custody**

	Clie	nt Inform	ation	Client Information Invoice Information								se On	nly				TAT		State		
lient: N	latador Proc	duction Co	ompany			ny: Ensolum LLC		L	ab WC	D#		Job	Num	ber		1D 3	2D 3D St		NM CO UT TX		
Project:						ss: 3122 National Parks			EYC	29	89	23	300-	3.00	02		X		$\times$		
	roject Manager: Ashley Giovengo City, State, Zip: Carlsbad NM, 88.								_			Analysis and Me						-			
	3122 Natio		A Contract of the second se			575-988-0055			-	1	1	Ana	lysis	and	Meth	nod	TT	SDV	EPA Program		
	e, Zip: Carls		88220			agiovengo@ensolum. aneous:	com											301			
	giovengo@e		om		IVIISCEI	aneous.			5	5								Com	bliance Y or N		
									v 8015	y 801			0.0	5	×	als		PWS	ID #		
				Sample Info	ormation				ROb	ROb	y 802	1 826	le 30(	NN-	500	3 Met					
Time Sampled	Date Sampled	Matrix	No. of Containers		Sar	nple ID	Field	Lat Num	ber of the second	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks		
2:44	9/19/24	Goil	1	BG	09-:	2`		11						χ							
2:52			1	BGG	- 60	4		12						Х							
3:03				BG	08-	6		13	3					X							
3:13				BG	04-	9		14	-					X							
3.21				BG	04-	10	1	15	5					χ							
3:30				BG	04-	12		14	0					X							
3:44			1	BG	04-	14		F	F					X							
							-														
Addition	al Instructio	ons: Plea	ase CC: cb	urton@ensolur	n.com, agi	ovengo@ensolum.com,	iestrella	@ensc	olum.co	om, b	deal	Dens	olum	i.com	n, cha	milto	n@ensolu	m.com			
bsimmo	ns@ensolun	n.com										_									
				of this sample. I am a	aware that tan	ppering with or intentionally misla	beling the sa	ample loc	ation, da	te or tir	me of co	ollectio	n is cor	nsidere	d fraud	d and m	ay be grounds	for legal a	ction.		
	Bowan Simmon ed by: (Signatu	and the second sec		20/24 DE	OI R	ceived by: (Signature)	Date G	20.2	Tin		01			sample	d or red	eived pa			ceived on ice the day they are bove 0 but less than 6 °C on		
Relinquish	ed by: (Signatu	ire) maale	e Gr	Time	30 Re	ceived by: (Signature)	Date	.10.1	110	183		1		Rece		on ic	-	Use On N	ly		
Relinquish	ed by: (Signatu	1	Date	10.14 24	Re	ceived by: (Signature)	Date		Tin	1e				T1		on ic	T2		Т3		
Relinquish	ed by: (Signatu	ıre)	Date			ceived by: (Signature)	Date		Tin					AVG	Tem	n°C	ÿ		15		
	rix: S - Soil, Sd - S				_								plasti	c, ag -	- amb	er gla	ss, v - VOA	1			
Note: Sam	ples are discar	ded 14 days	s after result	ts are reported unle	ess other arr	angements are made. Hazardo COC. The liability of the labo	ous sample	s will be	returne	d to cl	ient or	dispo	sed of	at the	e clien	t exper	nse. The repo	ort for the	analysis of the above		

#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. D	ate Received:	09/23/24 05	5:30	Work Order ID: E409189
Phone:	(972) 371-5200 D	ate Logged In:	09/20/24 15	5:09	Logged In By: Caitlin Mars
Email:		ue Date:	09/24/24 1	7:00 (1 day TAT)	
Chain of	Custody (COC)				
1. Does t	he sample ID match the COC?		Yes		
2. Does t	he number of samples per sampling site location match	the COC	Yes		
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>
4. Was th	e COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes		
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comments/Resolution
Sample 7	Furn Around Time (TAT)				
	e COC indicate standard TAT, or Expedited TAT?		Yes		Client asked to change sample names for
Sample (					samples 10-17 to BG04. Also asked for
	sample cooler received?		Yes		prelims on Chlorides only before final
	was cooler received in good condition?		Yes		•
9. Was th	e sample(s) received intact, i.e., not broken?		Yes		report for BGDOC analysis.
	custody/security seals present?		No		
	were custody/security seals intact?		NA		
-	he sample received on ice? If yes, the recorded temp is 4°C, i.e		Yes		
	Note: Thermal preservation is not required, if samples are reminutes of sampling	ceived w/i 15			
13. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>°C</u>		
Sample (	<u>Container</u>				
14. Are a	queous VOC samples present?		No		
5. Are V	/OC samples collected in VOA Vials?		NA		
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA		
l 7. Was a	a trip blank (TB) included for VOC analyses?		NA		
18. Are n	on-VOC samples collected in the correct containers?		Yes		
19. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes		
Field La	<u>bel</u>				
	field sample labels filled out with the minimum inform	ation:			
	ample ID?		Yes		
	Date/Time Collected? Collectors name?		Yes No		
	Preservation		INO		
_	the COC or field labels indicate the samples were prese	erved?	No		
	ample(s) correctly preserved?		NA		
	filteration required and/or requested for dissolved meta	als?	No		
	ase Sample Matrix				
	the sample have more than one phase, i.e., multiphase?		No		
	s, does the COC specify which phase(s) is to be analyze		NA		
Subconti	ract Laboratory				
Jubeone	-				
	amples required to get sent to a subcontract laboratory?		No		

Date

Released to Imaging: 4/21/2025 3:13:23 PM

#### **Chain of Custody**

Received by OCD: 3/21/2025 12:00:16 AM

Page 138 of 432

Page \_\_\_\_\_ of \_\_\_\_

	Clie	nt Inform	ation			Invoice Information	March .			La	b Us	e On	ly	1		-	TA	т		State	
Client: N	Matador Prod	duction Co	ompany			Company: Ensolum LLC		Lab	WO	ŧ	~	Job N	lum	ber	-	1D	2D	3D	Std	NM CO UT TX	
	Ray Sta					Address: 3122 National Parks Hwy	Y	E4	OA	18	9	Z3	00	3,00	204				X	X	
Contraction of the Contraction of the	Manager: As					City, State, Zip: Carlsbad NM, 882	20		1. 3		24	-		R. P.			-10				
	3122 Natio		Day and the second			Phone: 575-988-0055						Ana	lysis	and M	Neth	od				EPA Program	
The second s	te, Zip: Carls		PERSONAL PROPERTY AND			Email: agiovengo@ensolum.con	n											1		SDWA CWA RCF	A
Phone:	575-988-005	5				Miscellaneous:								1. 1. 1.							
Email: a	giovengo@e	nsolum.c	om	and the second	100				5	15										Compliance Y or	N
			and the second	1					V 80:	y 80.	-		0.0	~	×	als	2.1			PWSID #	
				Sampl	e Inform	nation			4 O	id Di	802	826(	300	NN -	05-1	Met					
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field Filter	Lab umber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
10:06	9/19/24	Soil	Dary 1	Be	07	-0`	1							χ						Changed	
10:10			1	B	507	-2'	1	2						X						Sample	
10:16			1	B	507	- 4'	1	3						X						names 10-	17
10:24				BG	07	-6	(	1						X						to BGOY	20
10:36				BC	507	- 8'	E	5_						X						Chad.	
10:49				BO	507	- 10`	(	Q			-1			X						9 23 24	
10:54				B	507	-12		7					_	X						cm	
11:13				Ba	307	- 14		8						X	_	_			_		
11:16				B	607	-15		9						X		_					
12:4		1		Be	509	- BG04-0'	11	0						X							
Additio	nal Instruction	ons: Ple	ase CC: c	burton@en	solum.c	com, agiovengo@ensolum.com, ies	trella@e	nsolun	n.cor	m, bo	leal@	venso	olum	n.com	, cna	milt	on@	enso	lum	.com,	
bsimmo	ons@ensolur	n.com					on the same h	Incrition	data	orthe	e of co	laction	is co	nsidare	d fraud	and	mayha	arous	de for	legal action	-
				y of this sample	l am awai	re that tampering with or intentionally mislabelin	ig the sample	ocation	, date	or um	e or co	nection	115 COI	isideret	anaud	anui	nay be	groun	10F	ic bur action.	
	y: Bowan Simmor		lamilton Date	1.	ime	Received by: (Signature)	Date		Time		-	1	-	Sample	s requir	ing the	ermal pr	eservat	ion mu	ist be received on ice the day they are	
1 10	hed by: (Signati	ne)	Call	120/24	0801		(G)	274	K	80	1	5		sampled	d or rec	eived p				temp above 0 but less than 6 °C on	
	hed by: (Signat	ure)	Date	120/01	ime	Received by: (Signature)	Date	FI	Time	~		100		subsen	ient da	25	-	La	b Us	e Only	-
	hed by: (Signati		lec G	2024	1830		9.20	.24	1	8	5			Rece	ived	on i	ce:	-	N		
Relinche	hed by: (Signat	ure)	Date	prod 1	ime	Received by: (Signature)	Date	1-1	Time	5	~										
1 Vis	W. Isignat		0	20.24	240		9-2:	3.24	10	53	6	1.51		T1				T2		<u>T3</u>	
Relinquis	hed by: (Signat	ure)	Dat		ime	Received by: (Signature)	Date		Time			1				0		N			
1		S					Contai	ar Tur	101 7	alac	n	nolu/	lacti	AVG	lem	p C	255 1	-10	4		
Sample M	atrix: S - Soil, Sd -	Solid, Sg - Sl	udge, A - Aqu	eous, O - Other		other arrangements are made. Hazardous	Contain	lbe ret	e. B.	to cli	p, p -	disport	and of	f at the	client	LI BI	anse .	There	nort	for the analysis of the above	
Note: San samples	mples are disca is applicable on	rded 14 day Ily to those	samples re	ceived by the	aboratory	with this COC. The liability of the laborato	ry is limited	to the	amou	nt pai	d for	on the	repo	rt.	cheff	скр	case.	ine re	port	or the analysis of the above	
L							1				110								-		
						A REAL PROPERTY AND A REAL PROPERTY AND A					1	2				-			-	•	
											1-	3				C	31	2		irote	3

#### **Chain of Custody**

									Chain of	Cust	ody												Page _2	_ of _2
Project:												ab V E U	VO#	Lab L	Job	Num	ber 3.00	02	1D	TAT 2D	BD S	td	State NM CO UT TX	
Address: City, Stat Phone:	roject Manager: Ashley Giovengo   City, State, Zip: Carlsbad M     ddress: 3122 National Parks Hwy   Phone: 575-988-0055     ty, State, Zip: Carlsbad NM, 88220   Email: agiovengo@enso     hone: 575-988-0055   Miscellaneous:     mail: agiovengo@ensolum.com   Miscellaneous:										_	F	15	ct l	Ar	alysis	and	Met	hod			Co	State   NM CO   UT TX   EPA Program   SDWA CWA   RCRA   ompliance Y   Or N   WSID #   Remarks	
Time				No, of	Samı	ple Info		Distance of the second		bid	Lab	0	DRO/ORO by 8015	ETEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			P	WSID # Remarks	
Sampled	Date Sample	4 Go	atrix	Containers	1	360	)6	Sample ID	15-40	Fie	Numt	ber	DRC	BTE	NOV	Chic	X BGI	TCEO	RCR					
12:52		Ĩ		1	4	860	6	+ BG	04-4		12						X							
3:03				-		BGC	24 -		04-6	-	13						X X			-	-			
3:13					-	BGC	56		04-10		15	-					X							
3:30					-	BG		=12.BG			14	_					X							
3:44		1		1		56	04	=14 BGA	04-17		FI	F					^							
simmo	ns@ensol	im.cor	m					agiovengo@ens						_					11.					
ampled by	Bowan Simm ned by: (Signa	ons and (		Date	20124	Time		Received by: (Signa	ture)	Date	20.2		Time D T				Sample	s requi	iring the ceived p	mal pre	servation ice at an	n must b n avg ten	e received on ice the day they are np above 0 but less than 6 °C on	
Mich	ed by: (Signa ned by: (Signa	iona	ales		2024	Time 183 Time	0	Received by: (Signa Received by: (Signa		Date Q Date	10.1	4	Time	30	-		Rece	eived	l on ic	e:	Lab	Use ( N	Only	
elinquis	H. ned by: (Signa	ature)	10	Q. Date	20.14	240 Time	0	Received by: (Signa	ture)	Date		- 16	05 Time				T1 AVG	Ten	np °C_	(	1		<u> T3</u>	
Note: San	trix: S - Soil, So nples are disc s applicable o	arded 1	4 days	after resu	Its are report	rted unles	is other ary with	arrangements are m this COC. The liabilit	ade. Hazardous s y of the laborator	amples	ntainer s will be hited to t	retur	ned to	client o	or disp	osed o	f at the					ort for	the analysis of the above	
														(	Im				e	er	יו	V	irote	ch





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:

Ray State Slot 4

Work Order: E408222

Job Number: 23003-0002

Received: 8/27/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/3/24

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: 9/3/24

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

Project Name: Ray State Slot 4 Workorder: E408222 Date Received: 8/27/2024 5:00:00AM

Ashley Giovengo,



Page 141 of 432

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/27/2024 5:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH01 - 0'	5
PH01 - 3'	6
PH01 - 5'	7
PH01 - 7'	8
PH01 - 9'	9
PH01 - 11'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

#### **Sample Summary**

#### Page 143 of 432

		Sumple Sum	mai y		
Matador Resources, LLC.		Project Name:	Ray State Slot 4		Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23003-0002		Reported.
Dallas TX, 75240		Project Manager:	Ashley Giovengo		09/03/24 12:51
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 0'	E408222-01A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
PH01 - 3'	E408222-02A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
PH01 - 5'	E408222-03A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
PH01 - 7'	E408222-04A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
PH01 - 9'	E408222-05A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
PH01 - 11'	E408222-06A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.



		impic D				
Matador Resources, LLC.	Project Name:	5	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002			Reported:
Dallas TX, 75240	Project Manag	er: Ash	ey Giovengo			9/3/2024 12:51:00PM
		PH01 - 0'				
		E408222-01				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2435028
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	
p-Xylene	ND	0.0250	1	08/27/24	08/27/24	
o,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Fotal Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	08/27/24	08/27/24	
Surrogate: Toluene-d8		105 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2435028
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	08/27/24	08/27/24	
Surrogate: Toluene-d8		105 %	70-130	08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: NV		Batch: 2435031
Diesel Range Organics (C10-C28)	91.4	25.0	1	08/27/24	08/30/24	
Dil Range Organics (C28-C36)	114	50.0	1	08/27/24	08/30/24	
Surrogate: n-Nonane		89.6 %	50-200	08/27/24	08/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2435030
Chloride	25700	1000	50	08/27/24	08/27/24	

# Sample Data


# Sample Data

	56	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ey Giover				<b>Reported:</b> 9/3/2024 12:51:00PM
		PH01 - 3'					
		E408222-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435028
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	
p-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: Bromofluorobenzene		120 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130		08/27/24	08/27/24	
Surrogate: Toluene-d8		106 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	BA		Batch: 2435028
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/27/24	08/27/24	
Surrogate: Bromofluorobenzene		120 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130		08/27/24	08/27/24	
Surrogate: Toluene-d8		106 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435031
Diesel Range Organics (C10-C28)	ND	25.0		1	08/27/24	08/30/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/27/24	08/30/24	
Surrogate: n-Nonane		88.3 %	50-200		08/27/24	08/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	IY		Batch: 2435030
Chloride	1580	40.0		2	08/27/24	08/27/24	



# Sample Data

		ample D	ara				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 9/3/2024 12:51:00PM
		PH01 - 5'					
		E408222-03					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435028
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	
-Xylene	ND	0.0250		1	08/27/24	08/27/24	
,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: Bromofluorobenzene		107 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		08/27/24	08/27/24	
urrogate: Toluene-d8		105 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2435028
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/27/24	08/27/24	
Surrogate: Bromofluorobenzene		107 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		08/27/24	08/27/24	
Surrogate: Toluene-d8		105 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435031
Diesel Range Organics (C10-C28)	ND	25.0		1	08/27/24	08/30/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/27/24	08/30/24	
Surrogate: n-Nonane		92.4 %	50-200		08/27/24	08/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	IY		Batch: 2435030
Chloride	1040	20.0		1	08/27/24	08/27/24	



# Sample Data

	50	imple D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/3/2024 12:51:00PM
		PH01 - 7'					
		E408222-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435028
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	
Fotal Xylenes	ND	0.0250		1	08/27/24	08/27/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		87.9 %	70-130		08/27/24	08/27/24	
Surrogate: Toluene-d8		105 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: BA		Batch: 2435028
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/27/24	08/27/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		87.9 %	70-130		08/27/24	08/27/24	
Surrogate: Toluene-d8		105 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2435031
Diesel Range Organics (C10-C28)	ND	25.0		1	08/27/24	08/30/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/27/24	08/30/24	
Surrogate: n-Nonane		90.9 %	50-200		08/27/24	08/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2435030
Chloride	587	20.0		1	08/27/24	08/27/24	



# Sample Data

		ample D	ara				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 9/3/2024 12:51:00PM
		PH01 - 9'					
		E408222-05					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435028
Benzene	ND	0.0250		1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250		1	08/27/24	08/27/24	
°oluene	ND	0.0250		1	08/27/24	08/27/24	
-Xylene	ND	0.0250		1	08/27/24	08/27/24	
,m-Xylene	ND	0.0500		1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250		1	08/27/24	08/27/24	
urrogate: Bromofluorobenzene		108 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		88.9 %	70-130		08/27/24	08/27/24	
Surrogate: Toluene-d8		107 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2435028
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/27/24	08/27/24	
Surrogate: Bromofluorobenzene		108 %	70-130		08/27/24	08/27/24	
Surrogate: 1,2-Dichloroethane-d4		88.9 %	70-130		08/27/24	08/27/24	
Surrogate: Toluene-d8		107 %	70-130		08/27/24	08/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435031
Diesel Range Organics (C10-C28)	ND	25.0		1	08/27/24	08/30/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/27/24	08/30/24	
Surrogate: n-Nonane		86.5 %	50-200		08/27/24	08/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2435030
Chloride	2760	40.0		2	08/27/24	08/27/24	



# Sample Data

		ample D	uu				
Matador Resources, LLC.	Project Name:	5	State Slot	4			
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002				Reported:
Dallas TX, 75240	Project Manag	er: Ash	Ashley Giovengo				9/3/2024 12:51:00PM
		PH01 - 11'					
		E408222-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435028
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	
p-Xylene	ND	0.0250		1	08/27/24	08/28/24	
p,m-Xylene	ND	0.0500		1	08/27/24	08/28/24	
Fotal Xylenes	ND	0.0250		1	08/27/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/27/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130		08/27/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2435028
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/27/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130		08/27/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130		08/27/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130		08/27/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435031
Diesel Range Organics (C10-C28)	ND	25.0		1	08/27/24	08/30/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/27/24	08/30/24	
Surrogate: n-Nonane		87.9 %	50-200		08/27/24	08/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2435030
Chloride	1020	20.0		1	08/27/24	08/27/24	



# QC Summary Data

Matador Resources, LLC.		Project Name:		y State Slot 4 003-0002					Reported:	
5400 LBJ Freeway, Suite 1500		Project Number:				(				
Dallas TX, 75240		Project Manager:	As	shley Giovengo				2	9/3/2024 12:51:00PM	
		Volatile Organic	Analyst: BA							
Analyte	D14	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	Result mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2435028-BLK1)							Prenared: 08	R/27/24 An	alyzed: 08/27/24	
Benzene	ND	0.0250					TTopurous of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
p,m-Xylene Total Xylenes	ND	0.0250								
		0.0250	0.500		111	70 120				
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.7	70-130				
Surrogate: Toluene-d8	0.522		0.500		104	70-130				
LCS (2435028-BS1)							Prepared: 08	8/27/24 An	alyzed: 08/27/24	
Benzene	2.15	0.0250	2.50		86.0	70-130				
Ethylbenzene	2.33	0.0250	2.50		93.2	70-130				
Toluene	2.38	0.0250	2.50		95.1	70-130				
o-Xylene	2.57	0.0250	2.50		103	70-130				
p,m-Xylene	5.14	0.0500	5.00		103	70-130				
Total Xylenes	7.71	0.0250	7.50		103	70-130				
Surrogate: Bromofluorobenzene	0.546		0.500		109	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				
Matrix Spike (2435028-MS1)				Source: E4	408221-0	07	Prepared: 08	8/27/24 An	alyzed: 08/27/24	
Benzene	2.16	0.0250	2.50	ND	86.3	48-131				
Ethylbenzene	2.33	0.0250	2.50	ND	93.4	45-135				
Toluene	2.37	0.0250	2.50	ND	94.8	48-130				
o-Xylene	2.59	0.0250	2.50	ND	104	43-135				
p,m-Xylene	5.15	0.0500	5.00	ND	103	43-135				
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135				
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130				
Surrogate: Toluene-d8	0.515		0.500		103	70-130				
Matrix Spike Dup (2435028-MSD1)				Source: E4	408221-(	07	Prepared: 08	8/27/24 An	alyzed: 08/27/24	
Benzene	2.10	0.0250	2.50	ND	83.9	48-131	2.77	23	-	
Ethylbenzene	2.35	0.0250	2.50	ND	94.0	45-135	0.662	27		
5	2.35	0.0250	2.50	ND	94.0 94.5	43-133	0.002	27		
Toluene					94.3 104	48-130	0.275			
o-Xylene	2.60	0.0250	2.50	ND				27		
p,m-Xylene	5.13	0.0500	5.00	ND	103	43-135	0.399	27		
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135	0.0582	27		
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130				



# **QC Summary Data**

		VC DI		ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 3003-0002 Ashley Giovengo					<b>Reported:</b> 9/3/2024 12:51:00PM
	No	onhalogenated O	rganics	by EPA 8015	5D - GI	RO			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 (2435028-BLK1)							Prepared: 0	8/27/24 A	nalyzed: 08/27/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.7	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			
LCS (2435028-BS2)							Prepared: 0	8/27/24 A	analyzed: 08/27/24
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.1	70-130			
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			
Matrix Spike (2435028-MS2)				Source: E	408221-0	)7	Prepared: 0	8/27/24 A	analyzed: 08/27/24
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
Matrix Spike Dup (2435028-MSD2)				Source: E	408221-0	)7	Prepared: 0	8/27/24 A	analyzed: 08/27/24
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	3.82	20	
Surrogate: Bromofluorobenzene	0.583		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.8	70-130			
antogate: 1,2 Dientoroethane ut	0.121								

# **QC Summary Data**

		QC BI		laly Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/3/2024 12:51:00PM
	Nonh	alogenated Orga	anics b	y EPA 8015D -	DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2435031-BLK1)							Prepared: 0	8/27/24 A	analyzed: 08/27/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			
LCS (2435031-BS1)							Prepared: 0	8/27/24 A	analyzed: 08/27/24
Diesel Range Organics (C10-C28)	221	25.0	250		88.4	38-132			
Surrogate: n-Nonane	46.3		50.0		92.7	50-200			
Matrix Spike (2435031-MS1)				Source: E4	408217-	02	Prepared: 0	8/27/24 A	analyzed: 08/28/24
Diesel Range Organics (C10-C28)	242	25.0	250	ND	97.0	38-132			
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			
Matrix Spike Dup (2435031-MSD1)				Source: E4	408217-	02	Prepared: 0	8/27/24 A	analyzed: 08/28/24
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.7	38-132	0.311	20	
Surrogate: n-Nonane	43.2		50.0		86.4	50-200			



# **QC Summary Data**

	Project Name: Project Number:		2					Reported:
	5			)				9/3/2024 12:51:00PM
	Anions	by EPA	300.0/9056A					Analyst: IY
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	8/27/24	Analyzed: 08/27/24
ND	20.0							
						Prepared: 0	8/27/24	Analyzed: 08/27/24
256	20.0	250		102	90-110			
			Source: I	408221-	02	Prepared: 0	8/27/24	Analyzed: 08/27/24
1260	20.0	250	1070	76.7	80-120			M4
			Source: I	2408221-0	02	Prepared: 0	8/27/24	Analyzed: 08/27/24
1280	20.0	250	1070	86.2	80-120	1.88	20	
-	mg/kg ND 256 1260	Project Number:   Project Manager:   Anions   Result Reporting   Imit mg/kg   ND 20.0   256 20.0   1260 20.0	Project Number:     Project Number:     Project Manager:   Anions by EPA     Anions   Spike     Limit   Level     mg/kg   mg/kg     ND   20.0     256   20.0   250     1260   20.0   250	Project Number: 23003-0002   Project Manager: Ashley Giovenge   Anions by EPA 300.0/9056A   Result Spike Source   Result Limit Level Result   mg/kg mg/kg mg/kg mg/kg   ND 20.0 Source:   256 20.0 250   1260 20.0 250	Project Number:   23003-0002     Project Manager:   Ashley Giovengo     Anions by EPA 300.0/9056A   Imit     Result   Reporting   Spike   Source     Result   Imit   Level   Result   Rec     mg/kg   mg/kg   mg/kg   %   Imit   Imit<	Project Number:23003-0002Project Manager:Ashley GiovengoAshley GiovengoAnions by EPA 300.0/9056AResultReporting Mg/kgSpike Mg/kgSource Mg/kgRec %ND20.025010290-11025620.025010290-110Source: E408221-02126020.0250107076.780-120Source: E408221-02	Project Number:23003-0002Project Manager:Ashley GiovengoAnions by EPA 300.0/9056AResultReporting LimitSpike LevelSource ResultRec %Rep %Markgmg/kgmg/kgmg/kg%%%ND20.025010290-110Prepared: 025620.025010776.780-120126020.0250107076.780-120	Project Number:   23003-0002     Project Manager:   Ashley Giovengo     Anions by EPA 300.0/9056A   Rec   Rec   Rec   RPD   RPD     Result   Reporting   Spike   Source   Rec   Limits   RPD   Minit     mg/kg   mg/kg   mg/kg   mg/kg   Source   Rec   Limits   RPD   Limit     ND   20.0   250   102   90-110   Prepared: 08/27/24   Prepared: 08/27/24

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.



	Demition		
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/03/24 12:51

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.



## **Chain of Custody**

Page

1 of

	Clier	nt Inform	ation		Invoice Information												se Only TAT							State			
lient: N	Aatador Prod	uction Co	ompany		Con	npany: E	Ensolum	LLC			ab WC			Job	Num	ber		1D	2D 31	D Std	NM	1 CO	UT	TX			
roject: I	Ray State Slot	<u>t 4</u>			Add	ress: 312	22 Natio	onal Parks Hy	vy	E	40	322	22	230	03	-00	62			Х	X						
roject N	Aanager: Ash	nley Giov	engo		City	, State, Zi	ip: Carls	sbad NM, 88	220																		
ddress:	3122 Nation	nal Parks	Hwy		Pho	ne: 575	5-988-00	55			1			Ana	alysis	and	Met	hod	-		E	-	ogran	1			
ity, Stat	e, Zip: Carlst	bad NM,	88220		Em	ail: agio	ovengo@	ensolum.co	m		2										SDWA	CV	VA	RCRA			
	575-988-0055		_		Misc	ellaneous	s:																				
mail: a	giovengo@er	nsolum.c	om						_	-	015	115									Compliar		Y	or N			
							_				oy 80	oy 80	21	00	0.0	Σ	¥	tals			PWSID #		-				
			-	Sample I	Informatio	n		_	-	1	- ON	ROI	y 80	y 826	de 30	2 - 0	- 500	3 Me									
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	)		Field	Lab Numb	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				Rem	arks				
9:13	8/23/2024	Soil	1			PH01 - 0'				1						х											
9:21	8/23/2024	Soil	1		3	PH01 - 3'				2						x											
9:54	8/23/2024	Soil	1			PH01 - 5'				3						x											
10:36	8/23/2024	Soil	1			PH01 - 7'			1	4						x											
11:00	8/23/2024	Soil	1		3	PH01 - 9'				5						x											
11:27	8/23/2024	Soil	1		F	PH01 - 11				6	,					x											
cfield sam ampled by Relinquish Relinquish	ns@ensolum	e validity and d Bowan Sin re) re) re)	d authenticity nmons Date & Date S Date	126/24 K	am aware that 2:15 	tampering w	with or inter ov: (Signat	ntionally mislabe ure) ure) 2 14000	Date	262 262 262	tion, dat f Tim Tim Tim Tim	e  or tim  0  e 749 e 50	S			Sample sample	d frau es requi d or re <u>went d</u>	d and n ring the ceived p avs	nay be gr mal prese acked in ic	ounds for I rivation mus te at an avg t Lab Use Y N	egal action t be receive temp above	d on ice t					
ample Ma	trix: <b>S</b> - Soil, <b>Sd</b> - So	olid Se-Shu	dge A - Aque	ous. 0 - Other					Con	itainer T	vpe: g	- glas	5. p - 1	polv/r	plasti		amb	per gla	SS. V - 1	VOA T	-	-	-	_			
ampic Ivid				ts are reported u	unless other	arrangemer	nts are ma	ade. Hazardous									clier	it expe	nse. The		or the ana	alysis o	f the al	oove			
lote: Sam		100 million (100 m		the second s		a second a second second		of the laborat						1000								1					

### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. D	ate Received:	08/27/24	06:00	Work Order ID:	E408222
Phone:	(972) 371-5200 D	ate Logged In:	08/26/24	16:52	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com D	ue Date:	09/03/24	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comment	s/Resolution
<u>Sample '</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	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			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample ter	nperature: 4°	с			
	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 containers	s collected?	Yes			
Field La						
	field sample labels filled out with the minimum inform	ation:				
S	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
_	Preservation	10				
	the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved?	.1.9	NA			
	o filteration required and/or requested for dissolved meta	115 /	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 analyze	d?	NA			
<u>Subcont</u>	ract Laboratory					
28 Ares	samples required to get sent to a subcontract laboratory?		No			
20. Alt 3						

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



envirotech Inc.

•





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:

Ray State Slot 4

Work Order: E408250

Job Number: 23003-0002

Received: 8/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/4/24

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: 9/4/24

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

Project Name: Ray State Slot 4 Workorder: E408250 Date Received: 8/29/2024 8:00:24AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2024 8:00:24AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH01 - 13'	5
PH02 - 0'	6
PH02 - 2'	7
PH02 - 4	8
PH02 - 6	9
PH02 - 7	10
PH03 - 0	11
PH03 - 2	12
PH03 - 4	13
PH03 - 6	14
PH03 - 7'	15
SS01 - 0'	16
SS02 - 0'	17
QC Summary Data	18
QC - Volatile Organic Compounds by EPA 8260B	18
QC - Nonhalogenated Organics by EPA 8015D - GRO	19
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	20
QC - Anions by EPA 300.0/9056A	21
Definitions and Notes	22
Chain of Custody etc.	23

#### Sample Summarv

		Sample Sum	mai y		
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	Ray State Slot 4 23003-0002		Reported:
Dallas TX, 75240		Project Manager:			09/04/24 13:34
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 13'	E408250-01A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
PH02 - 0'	E408250-02A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
PH02 - 2'	E408250-03A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
PH02 - 4	E408250-04A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
РН02 - 6	E408250-05A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
PH02 - 7	E408250-06A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
РН03 - 0	E408250-07A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
РН03 - 2	E408250-08A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
PH03 - 4	E408250-09A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
РН03 - 6	E408250-10A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
PH03 - 7'	E408250-11A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SS01 - 0'	E408250-12A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
'S02 - 0'	E408250-13A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.



		impic D				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot 4 03-0002 ley Gioveng			<b>Reported:</b> 9/4/2024 1:34:40PM
	]	PH01 - 13'				
	]	E408250-01				
		Reporting				
Analyte	Result	Limit	Dilut	tion Prepare	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: BA		Batch: 2435100
Benzene	ND	0.0250	1	08/29/2	4 08/30/24	
Ethylbenzene	ND	0.0250	1	08/29/2	4 08/30/24	
Toluene	ND	0.0250	1	08/29/2	4 08/30/24	
o-Xylene	ND	0.0250	1	08/29/2	4 08/30/24	
p,m-Xylene	ND	0.0500	1	08/29/2	4 08/30/24	
Total Xylenes	ND	0.0250	1	08/29/2	4 08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/29/2	4 08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	08/29/2	4 08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/29/2	4 08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: BA		Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/2	4 08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/29/2	4 08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	08/29/2	4 08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/29/2	4 08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	) mg/kg	mg/kg	g Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/2	4 09/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/2	4 09/02/24	
Surrogate: n-Nonane		75.5 %	50-200	08/29/2	4 09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: JM		Batch: 2435096
Chloride	678	20.0	1	08/29/2	4 08/29/24	





# Sample Data

		ample D	ara				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/4/2024 1:34:40PM
		PH02 - 0'					
		E408250-02					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
p,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	85.3	25.0		1	08/29/24	09/02/24	
Oil Range Organics (C28-C36)	63.2	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		75.8 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	2790	100		5	08/29/24	08/29/24	



# Sample Data

		ample D	uu				
Matador Resources, LLC.	Project Name:	5	State Slot	4			
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002				Reported:
Dallas TX, 75240	Project Manage	er: Ash	ley Giover	ıgo			9/4/2024 1:34:40PM
		PH02 - 2'					
	]	E408250-03					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
o,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Fotal Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		99.2 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		99.2 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		78.8 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	1730	40.0		2	08/29/24	08/29/24	



## Sample Data

	56	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/4/2024 1:34:40PM
		PH02 - 4					
		E408250-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/31/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/31/24	
Toluene	ND	0.0250		1	08/29/24	08/31/24	
p-Xylene	ND	0.0250		1	08/29/24	08/31/24	
o,m-Xylene	ND	0.0500		1	08/29/24	08/31/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		08/29/24	08/31/24	
Surrogate: Toluene-d8		103 %	70-130		08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		08/29/24	08/31/24	
Surrogate: Toluene-d8		103 %	70-130		08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		71.6 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2435096
Chloride	1590	20.0		1	08/29/24	08/29/24	

Page 8 of 25



# **Sample Data**

	D	ample D	uu				
Matador Resources, LLC.	Project Name	2	State Slot	: 4			
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002				Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Giover	ngo			9/4/2024 1:34:40PM
		PH02 - 6					
		E408250-05					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
p,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		72.6 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	400	20.0		1	08/29/24	08/29/24	



## Sample Data

	50	imple D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 9/4/2024 1:34:40PM
		<b>PH02 - 7</b>					
	]	E408250-06					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
o-Xylene	ND	0.0250		1	08/29/24	08/30/24	
p,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		99.9 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		99.9 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		69.9 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	308	20.0		1	08/29/24	08/29/24	



# Sample Data

	56	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/4/2024 1:34:40PM
		PH03 - 0					
		E408250-07					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
o,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Fotal Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		107 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		107 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		74.7 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	905	20.0		1	08/29/24	08/29/24	



# Sample Data

	5	ample D	uta				
Matador Resources, LLC.	Project Name	: Ray	State Slot	4			
5400 LBJ Freeway, Suite 1500	Project Numb		23003-0002				Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giover	ıgo			9/4/2024 1:34:40PM
		РН03 - 2					
		E408250-08					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
o-Xylene	ND	0.0250		1	08/29/24	08/30/24	
o,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Fotal Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		87.1 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		104 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		87.1 %	70-130		08/29/24	08/30/24	
urrogate: Toluene-d8		104 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		68.9 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	1030	20.0		1	08/29/24	08/29/24	



# **Sample Data**

		ample D	uta				
Matador Resources, LLC.	Project Name:	5	State Slot	4			
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002				Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ey Giovei	ngo			9/4/2024 1:34:40PM
		РН03 - 4					
		E408250-09					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
o,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		70.2 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	JM		Batch: 2435096
Chloride	927	20.0		1	08/29/24	08/29/24	



# Sample Data

	<b>D</b>	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manaş	er: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 9/4/2024 1:34:40PM
		РН03 - 6					
		E408250-10					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
o,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		77.9 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	310	20.0		1	08/29/24	08/29/24	



# Sample Data

	D	ample D	uu				
Matador Resources, LLC.	Project Name	•	State Slot	4			D (1
5400 LBJ Freeway, Suite 1500	Project Numb		)3-0002				<b>Reported:</b> 9/4/2024 1:34:40PM
Dallas TX, 75240	Project Mana	ger: Asn	ley Giover	igo			9/4/2024 1.34.40FW
		PH03 - 7'					
		E408250-11					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
p,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		74.7 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	377	20.0		1	08/29/24	08/29/24	



## Sample Data

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/4/2024 1:34:40PM
		SS01 - 0'					
		E408250-12					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
p-Xylene	ND	0.0250		1	08/29/24	08/30/24	
o,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Fotal Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		104 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g/kg		: BA		Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		104 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		80.8 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	297	20.0		1	08/29/24	08/29/24	



## **Sample Data**

	D	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 9/4/2024 1:34:40PM
		SS02 - 0'					
		E408250-13					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2435100
Benzene	ND	0.0250		1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250		1	08/29/24	08/30/24	
Toluene	ND	0.0250		1	08/29/24	08/30/24	
o-Xylene	ND	0.0250		1	08/29/24	08/30/24	
p,m-Xylene	ND	0.0500		1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		103 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	kg Anal		: BA		Batch: 2435100
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8		103 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435102
Diesel Range Organics (C10-C28)	ND	25.0		1	08/29/24	09/02/24	
Dil Range Organics (C28-C36)	ND	50.0		1	08/29/24	09/02/24	
Surrogate: n-Nonane		73.6 %	50-200		08/29/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2435096
Chloride	244	20.0		1	08/29/24	08/29/24	



# QC Summary Data

Matador Resources, LLC.		Project Name:		y State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	003-0002					
Dallas TX, 75240		Project Manager:	As	shley Giovengo				9	9/4/2024 1:34:40PM
		Volatile Organic	Compou	unds by EPA	A 82601	B			Analyst: BA
Analyte		Reporting	Spike	Source		Rec		RPD	
,	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435100-BLK1)							Prepared: 0	8/29/24 An	alyzed: 08/29/24
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: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			
-							Preparad. 0	8/20/21 1-	alyzed: 08/29/24
LCS (2435100-BS1)			2.50		02 (	70.125	ricpareu. 0	0127124 All	aryzeu. 00/29/24
Benzene	2.32	0.0250	2.50		92.6	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.6	70-130			
Toluene	2.48	0.0250	2.50		99.0	70-130			
p-Xylene	2.51	0.0250	2.50		100	70-130			
o,m-Xylene	5.03	0.0500	5.00		101	70-130			
Total Xylenes	7.54	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
Matrix Spike (2435100-MS1)				Source: E			Prepared: 0	8/29/24 An	alyzed: 08/30/24
Benzene	2.23	0.0250	2.50	ND	89.3	48-131			
Ethylbenzene	2.37	0.0250	2.50	ND	94.9	45-135			
Toluene	2.48	0.0250	2.50	ND	99.0	48-130			
o-Xylene	2.65	0.0250	2.50	ND	106	43-135			
o,m-Xylene	5.27	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.92	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
Matrix Spike Dup (2435100-MSD1)				Source: E	408250-	10	Prepared: 0	8/29/24 An	alyzed: 08/30/24
Benzene	2.28	0.0250	2.50	ND	91.2	48-131	2.15	23	
Ethylbenzene	2.33	0.0250	2.50	ND	93.0	45-135	2.02	27	
Toluene	2.46	0.0250	2.50	ND	98.3	48-130	0.709	24	
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	4.28	27	
	5.06	0.0500	5.00	ND	101	43-135	4.22	27	
o,m-Xylene			7.50	ND	101	43-135	4.24	27	
p,m-Xylene Total Xylenes	7.59	0.0250	7.50	ND ND	101				
	7.59 0.519	0.0250	0.500	nb	104	70-130			
Total Xylenes		0.0250							



# **QC Summary Data**

		QC D	u 111111	ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	ay State Slot 4 3003-0002 Ashley Giovengo					<b>Reported:</b> 9/4/2024 1:34:40PM
	N	onhalogenated O	rganics	by EPA 801	5D - GF	RO			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 (2435100-BLK1)							Prepared: 0	8/29/24 A	analyzed: 08/29/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			
LCS (2435100-BS2)							Prepared: 0	8/29/24 A	analyzed: 08/29/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
Matrix Spike (2435100-MS2)				Source: E	408250-1	0	Prepared: 0	8/29/24 A	analyzed: 08/30/24
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.7	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.6	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
Matrix Spike Dup (2435100-MSD2)				Source: E	408250-1	0	Prepared: 0	8/29/24 A	analyzed: 08/30/24
Gasoline Range Organics (C6-C10)	40.5	20.0	50.0	ND	81.0	70-130	5.57	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

# **QC Summary Data**

		QU D		ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	ay State Slot 4 3003-0002 Ashley Giovengo	1				<b>Reported:</b> 9/4/2024 1:34:40PM
	Nonha	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2435102-BLK1)							Prepared: 0	8/29/24 A	analyzed: 09/02/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.6		50.0		81.3	50-200			
LCS (2435102-BS1)							Prepared: 0	8/29/24 A	analyzed: 09/02/24
Diesel Range Organics (C10-C28)	190	25.0	250		75.9	38-132			
Surrogate: n-Nonane	45.0		50.0		89.9	50-200			
Matrix Spike (2435102-MS1)				Source: E	408250-	05	Prepared: 0	8/29/24 A	analyzed: 09/02/24
Diesel Range Organics (C10-C28)	190	25.0	250	ND	75.9	38-132			
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			
Matrix Spike Dup (2435102-MSD1)				Source: E	408250-	05	Prepared: 0	8/29/24 A	analyzed: 09/02/24
Diesel Range Organics (C10-C28)	185	25.0	250	ND	73.9	38-132	2.70	20	
Surrogate: n-Nonane	42.5		50.0		84.9	50-200			



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					Reported:
Dallas TX, 75240		Project Manager:	1	Ashley Giovengo	,				9/4/2024 1:34:40PM
		Anions	by EPA	300.0/9056A					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 (2435096-BLK1)							Prepared: 0	8/29/24 <i>I</i>	Analyzed: 08/29/24
Chloride	ND	20.0							
LCS (2435096-BS1)							Prepared: 0	8/29/24 A	Analyzed: 08/29/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2435096-MS1)				Source: E	408250-0	01	Prepared: 0	8/29/24 A	Analyzed: 08/29/24
Chloride	936	20.0	250	678	103	80-120			
Matrix Spike Dup (2435096-MSD1)				Source: E	408250-0	)1	Prepared: 0	8/29/24 A	Analyzed: 08/29/24
Chloride	938	20.0	250	678	104	80-120	0.230	20	

QC Summary Report Comment:

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



	20111101		
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/04/24 13:34

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





#### **Chain of Custody**

ce Information Lab Use Only TAT State
Ium LLCLab WO#Job Number1D2D3DStdNMCOUTTXJational Parks HwyE40825023093-002XXXXX
Carlsbad NM, 88220
8-0055 Analysis and Method EPA Program
go@ensolum.comSDWA_CWA_RCRA
Compliance Y or N
# Device a solution of the second sec
# Allow Bitterid   Bitterid Field   Bitterid Bitterid
2 X
3 X
Ч Х
5 X De not run for BigDoc unless
PHOZ-GI is > 100 TPH or GOD CI-
7 X .
8 X X
9 X
intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
- <del>βriggs</del> δ-28-24 17(0 Received on ice: (ŷ/ Ν
a ferry 8 29/24 8:00 T1 T2 T3
AVG Temp °C
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. ignature) Complex Date B-28-24 I ignature) Date Date Date Date Date Date Date Time Date Time Date Time Date Time Date Time Time Time Date Time

Page \_\_\_\_

of

#### **Chain of Custody**

	Clier	nt Inform	nation			Invoice Informatio	n				Lat	o Use	e Onl	у				TAT		State			
nt: N	Aatador Prod	uction C	ompany		Compa	ny: Ensolum LLC			Lab V	VO#		1	Job N	lumb	ber		1D 2	D 3D	Std	NM	CO UT TX		
_	Ray State S					s: 3122 National Parks	Hwy		E				X							X			
ect l	Aanager: Ast	nley Giov	engo		City, St	ate, Zip: Carlsbad NM,	88220							-									
	3122 Nation				Phone:	575-988-0055					-		Anal	ysis a	and N	Meth	nod			El	A Program		
Sta	e, Zip: Carls	bad NM,	88220		Email:	agiovengo@ensolum.	com		4											SDWA	CWA RCRA		
e:	575-988-005	5			Miscella	ineous:																	
: a	giovengo@ei	nsolum.c	om							8015	015								I F	Complian	ce Y or N		
									-	oy 80	oy 80	21	0	0.0	Σ	X	tals			PWSID #			
_		_		Sample Info	ormation			a	-	ORO	DRO I	y 80	y 826	de 30	Z-S	- 500	8 Me				Demesia		
e led	Date Sampled	Matrix	No. of Containers		San	ple ID	Field	La La L	b ber	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			-	Remarks		
٢	8127123	5	1	PI	403-7'			11							X					Unless Pl or 6000	an 16- BGDOL 105-6' 15 7100 TPI		
7	8/27/23	5	١	55	01-0			12							Х								
8	8127123	S	١	556	2-01			13	3						X								
		-																					
		-					-1																
-		-					-			-	-	-	-				-						
-							-1	-			-	-		-	-	_	-	-	a)) 1				
_								13		-	-	-	-			_		-					
									_									-					
io	al Instructio	ns: Ple	ase CC: cb	urton@ensolur	n.com, agi	ovengo@ensolum.com	, chamilte	on@er	nsolu	im.co	om, i	estre	ella@	enso	olum	.com	, bde	al@ens	olum	.com,			
mo	ns@ensolum	.com														_							
					aware that tam	pering with or intentionally misla	beling the sa	ample loo	cation,	date o	rtime	of coll	lection	is con	sidered	d frauc	d and ma	y be grou	nds for	legal action			
-		,	nden Dec		10	· · · · · · ·	-	-		Time		-	-	-	Cample	roquir	ding there	al process	ation mu	rt he receiver	I on ice the day they are		
uisr	ed by: (Signatur	re)	4/1	16/24 Time	< //	eived by: (Signature)	lec X	TT-10	4	Time	15										0 but less than 6 °C on		
mist	ed by: (Signatur	re) a	Date	Time		eived by: (Signature)	Date	0102		Time	N	-		ł	subseau	ient da	VS	L	abUs	e Only			
	rele Gi		and the second se	27.24 171				28-		17	0				Rece	ived	on ice	~	/ N				
6	ed by: (Signatur	A .	Date	Time		eived by: (Signature)	Date			Time					nece		Unice	0					
	les Bries	~	8-1	9-24 013	35 1	aig from	18	Izal	24	X.	0				T1			T2		-	Т3		
	ed by: (Signatur		Date	Time		eived by: (Signature)	Date		-	Time	-							11	-				
	and show the second						1								AVG			4					
	rix: <b>S</b> - Soil, <b>Sd</b> - So											-						s, v - VC					
						ngements are made. Hazardo										clien	t expen	se. The r	eport f	for the ana	lysis of the above		
es is	applicable only	to those s	amples rece	ived by the laborat	ory with this	COC. The liability of the labo	ratory is lin	nited to	the ar	mount	t paid	tor of	n the r	report	τ.	_	_				ote		
#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Day	te Received:	08/29/24 0	8:00		Work Order ID:	E408250
Phone:	(972) 371-5200 Da	te Logged In:	08/28/24 1	6:28		Logged In By:	Noe Soto
Email:		e Date:	09/05/24 1	7:00 (4 day TAT)			
Chain of	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match t	he COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Co	ourier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	analyses?	Yes				
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes	_		<u>Commen</u>	<u>ts/Resolution</u>
Sample '	<u>Turn Around Time (TAT)</u>						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	<u>Cooler</u>						
7. Was a	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	e custody/security seals present?		No				
11. If yes	s, were custody/security seals intact?		NA				
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample tem	perature: 4°	°C				
	<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				
	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 containers	collected?	Yes				
Field La							
	e field sample labels filled out with the minimum informa	tion:					
5	Sample ID?		Yes				
	Date/Time Collected?		Yes	L			
	Collectors name?		Yes				
	Preservation	10					
	s the COC or field labels indicate the samples were preser	ved?	No				
	sample(s) correctly preserved?	ູ	NA				
	o filteration required and/or requested for dissolved metal	S <i>:</i>	No				
	ase Sample Matrix						
	s 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 analyzed	?	NA				
Subcont	ract Laboratory						
28. Are s	samples required to get sent to a subcontract laboratory?		No				
		who?					

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



•





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:

Ray State Slot 4

Work Order: E408252

Job Number: 23003-0002

Received: 8/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/5/24

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: 9/5/24

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

Project Name: Ray State Slot 4 Workorder: E408252 Date Received: 8/29/2024 8:00:24AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2024 8:00:24AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH01 - 15'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

*		Sample Sum	mary		Ŭ
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	Ray State Slot 4 23003-0002		Reported:
Dallas TX, 75240		Project Manager:	Ashley Giovengo		09/05/24 11:02
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 15'	E408252-01A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.



		ampic D				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	•	State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Manag		ley Giovengo	)		9/5/2024 11:02:25AM
		PH01 - 15'				
		E408252-01				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: BA		Batch: 2435103
Benzene	ND	0.0250	1	08/29/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/03/24	
Toluene	ND	0.0250	1	08/29/24	09/03/24	
o-Xylene	ND	0.0250	1	08/29/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/29/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	08/29/24	09/03/24	
Surrogate: Toluene-d8		105 %	70-130	08/29/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	.nalyst: BA		Batch: 2435103
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/29/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	08/29/24	09/03/24	
Surrogate: Toluene-d8		105 %	70-130	08/29/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	nalyst: NV		Batch: 2435091
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane		84.1 %	50-200	08/29/24	08/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	.nalyst: JM		Batch: 2435096
Chloride	638	20.0	1	08/29/24	08/29/24	





## QC Summary Data

				ny Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		ay State Slot 4 003-0002					Reported:
Dallas TX, 75240		Project Manager:	As	shley Giovengo				9/5	5/2024 11:02:25AM
		Volatile Organic	Compo	unds by EPA	A 8260I	B			Analyst: BA
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result mg/kg	Limit mg/kg	Level mg/kg	Result mg/kg	Rec %	Limits %	RPD %	Limit %	Notes
Blank (2435103-BLK1)							Prepared: 0	8/20/21 Apol	yzed: 09/03/24
Benzene	ND	0.0250					Tiepareu. 0	0/29/24 Allal	yzed. 09/03/24
	ND								
Ethylbenzene	ND	0.0250							
Toluene		0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.6	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
LCS (2435103-BS1)							Prepared: 0	8/29/24 Anal	yzed: 09/03/24
Benzene	2.05	0.0250	2.50		81.9	70-130			
Ethylbenzene	2.18	0.0250	2.50		87.0	70-130			
Toluene	2.11	0.0250	2.50		84.4	70-130			
o-Xylene	2.09	0.0250	2.50		83.7	70-130			
p,m-Xylene	4.20	0.0500	5.00		84.1	70-130			
	6.30	0.0250	7.50		83.9	70-130			
Total Xylenes		0.0230							
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
Matrix Spike (2435103-MS1)				Source: E4	408251-0	06	Prepared: 0	8/29/24 Anal	yzed: 09/03/24
Benzene	2.41	0.0250	2.50	ND	96.5	48-131			
Ethylbenzene	2.31	0.0250	2.50	ND	92.6	45-135			
Toluene	2.33	0.0250	2.50	ND	93.2	48-130			
o-Xylene	2.22	0.0250	2.50	ND	88.7	43-135			
p,m-Xylene	4.47	0.0500	5.00	ND	89.3	43-135			
Total Xylenes	6.68	0.0250	7.50	ND	89.1	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
			0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.484 0.524		0.500 0.500		96.8 105	70-130			
Matrix Spike Dup (2435103-MSD1)				Source: E4			Prenared 0	8/29/24 Apol	yzed: 09/03/24
Benzene	2.46	0.0250	2.50	ND	98.3	48-131	1.85	23	<u>, 200. 07/05/24</u>
Ethylbenzene	2.36	0.0250	2.50	ND	94.5	45-135	2.03	27	
Toluene	2.39	0.0250	2.50	ND	95.4	48-130	2.37	24	
o-Xylene	2.26	0.0250	2.50	ND	90.3	43-135	1.74	27	
p,m-Xylene	4.56	0.0500	5.00	ND	91.2	43-135	2.06	27	
Total Xylenes	6.82	0.0250	7.50	ND	90.9	43-135	1.96	27	
	0.02	0.0230					1.70	21	
	0 - 0 -								
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
	0.504 0.481		0.500 0.500		101 96.2	70-130 70-130			



## **QC Summary Data**

		QC D	u 111111	ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 3003-0002 Ashley Giovengo					<b>Reported:</b> 9/5/2024 11:02:25AM
	No	onhalogenated O	rganics	by EPA 801	5D - GF	RO			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 (2435103-BLK1)							Prepared: 0	8/29/24 <i>A</i>	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.6	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
LCS (2435103-BS2)							Prepared: 0	8/29/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.3	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			
Matrix Spike (2435103-MS2)				Source: E	408251-0	6	Prepared: 0	8/29/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			
Matrix Spike Dup (2435103-MSD2)				Source: E	408251-0	6	Prepared: 0	8/29/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130	0.0703	20	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

## **QC Summary Data**

		QC D		lary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/5/2024 11:02:25AM
	Nonh	alogenated Org	anics b	y EPA 8015D -	DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2435091-BLK1)							Prepared: 0	8/29/24 <i>A</i>	Analyzed: 08/31/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	42.3		50.0		84.7	50-200			
LCS (2435091-BS1)							Prepared: 0	8/29/24 A	Analyzed: 08/31/24
Diesel Range Organics (C10-C28)	210	25.0	250		83.9	38-132			
Surrogate: n-Nonane	45.6		50.0		91.2	50-200			
Matrix Spike (2435091-MS1)				Source: E4	408249-	02	Prepared: 0	8/29/24 A	Analyzed: 08/31/24
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.3	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			
Matrix Spike Dup (2435091-MSD1)				Source: E4	408249-	02	Prepared: 0	8/29/24 A	Analyzed: 08/31/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.7	38-132	6.04	20	
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			



## **QC Summary Data**

			••••••		-				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Ray State Slot 4 23003-0002 Ashley Gioveng					<b>Reported:</b> 9/5/2024 11:02:25AM
		Anions	by EPA	300.0/9056A					Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2435096-BLK1)							Prepared: 0	8/29/24 A	Analyzed: 08/29/24
Chloride LCS (2435096-BS1)	ND	20.0					Prepared: 0	8/29/24 A	Analyzed: 08/29/24
Chloride	253	20.0	250	C I	101	90-110	Dana and O	9/20/24	
Matrix Spike (2435096-MS1)	026		250		E408250-		Prepared: 0	8/29/24 F	Analyzed: 08/29/24
Chloride Matrix Spike Dup (2435096-MSD1)	936	20.0	250	678 Source: 1	103 E <b>408250-</b> (	80-120 01	Prepared: 0	8/29/24 A	Analyzed: 08/29/24
Chloride	938	20.0	250	678	104	80-120	0.230	20	

QC Summary Report Comment:

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



_				
	Matador Resources, LLC.	Project Name:	Ray State Slot 4	
	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/05/24 11:02

ND A	Analyte NOT DETECTED at or abo	ove the reporting limit
------	--------------------------------	-------------------------

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.

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



#### **Chain of Custody**

	Client Information Invoice Information								Invoice Information Lab Use Only									TAT	State				
lient:	Matador Prod	uction Co	Company: Ensolum LLC			Lab	wot 400	ŧ		Job	Num	ber	-	1D 2	D 3D	Std	NM C	O UT	TX				
roject:	Ray State S	lot 4				Address: 3122 National Parks Hwy						2	2	300	8.00	52			X	X			
oject	ct Manager: Ashley Giovengo City, State, Zip: Carlsbad N																						
dress	3122 Nation	2 National Parks Hwy Phone: 575-988-0055											Ana	lysis	and I	Meth	nod			EPA	Progra	m	
ty, Sta	te, Zip: Carls	bad NM,	88220			Email: agiovengo@ensolur	n.com													SDWA	CWA	RCRA	
one:	575-988-005	5			N	Aiscellaneous:																	
nail:	giovengo@e	nsolum.c	om						1	15	15								_	ompliance	Y	or N	
										y 80	y 80	17	0	0.0	5	ž	tals		F	WSID #			
			1	Sam	ple Inform	ation				ROF	ROF	y 80.	826	le 30	N-0	- 500	Me						
Time ampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			R	emarks		
160	8127124	5	1		PL	$101 - 15^{-1}$			1						X								
dditic	nal Instructio	ns: Plea	ase CC: o	burton@	ensolum.co	m, agiovengo@ensolum.cor	n, chami	iltor	@ensc	olum.	com,	iestr	ella@	ens	olum	.com	n, bde	al@ens	olum.	com,			
	ns@ensolum		lauthentici	ty of this sam	ple. I am aware	that tampering with or intentionally mi	slabeling the	e sam	ple locatio	on, date	or tim	e of co	llection	n is co	nsidere	d frauc	d and m	ay be grour	nds for le	gal action.	-		
	:Chad Ham ned by: (Signatur		Date		Time	Received by: (Signature)		Date		Time				-	Sample	s requir	ring ther	mal preserva	tion mus	be received o	n ice the day	they are	
Ner	-		(C) Dat	128/24	1015 Time	Received by: (Signature) Michelle Gong Received by: (Signature)		8 d	28-24	Time		9.1			sample subsequ				t an avg t ab Use	emp above 0 b	ut less than	6 °C on	
VVIu	hele G	onsale	8 8	2824	1710	Campen Ving	8	7-2	9-24	17	760				Rece	ived	on ic		/ N	Uniy			
ame		21		-29-24	Time O(3S	Received by= (Signature)	0		9/24	-	100	>			<u>T1</u>			<u>T2</u>	_	]	3		
elinquis	ned by: (Signatur	re)	Dat	e	Time	Received by: (Signature)	1	Date		Time					AVG	Tem	p°C_	4					
	trix: <b>S</b> - Soil, <b>Sd</b> - S																	s, v - VO					
Note: Sa	ples are discard	led 14 days	after resu	ults are repo	rted unless of	her arrangements are made. Hazar vith this COC. The liability of the lab	dous samp	oles v	vill be ret	turned	to clie	ent or	dispos	sed of	f at the					or the analy	is of the	above	

#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC.	ate Received:	08/29/24	08:00	Work Order ID:	E408252
Phone:	(972) 371-5200 D	ate Logged In:	08/28/24		Logged In By:	Noe Soto
Email:		ue Date:		17:00 (4 day TAT)	Logged in Dy.	
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling	·	Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: 4 <sup>c</sup>	С			
	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			
19. Is the	e appropriate volume/weight or number of sample container	s collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	nation:				
:	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>	orread?	NT-			
	s the COC or field labels indicate the samples were pres sample(s) correctly preserved?	CI VCU !	No NA			
	b filteration required and/or requested for dissolved met	als?	NA			
			INU			
	n <u>ase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase <sup>:</sup>	)	<b>b</b> .1			
			No			
21. IT Ve	es, does the COC specify which phase(s) is to be analyze	iu r	NA			
Subcon	tract Laboratory_					
Subcont 28. Are	tract Laboratory samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No NA	Subcontract Lab: NA		

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



envirotech Inc.

•





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:

Ray State Slot 4

Work Order: E408268

Job Number: 23003-0002

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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: 9/6/24

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

Project Name: Ray State Slot 4 Workorder: E408268 Date Received: 8/30/2024 5:00:00AM

Ashley Giovengo,



Page 195 of 432

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH05-10'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

*		Sample Sum	mary		0
Matador Resources, LLC.		Project Name:	Ray State Slot 4 23003-0002		Reported:
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Number: Project Manager:	Ashley Giovengo		09/06/24 08:04
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH05-10'	E408268-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.



	~	ampic D				
Matador Resources, LLC.	Project Name	•	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002			Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			9/6/2024 8:04:16AM
		PH05-10'				
		E408268-01				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435115
Benzene	ND	0.0250	1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/04/24	
Toluene	ND	0.0250	1	08/30/24	09/04/24	
o-Xylene	ND	0.0250	1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		96.2 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		102 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435115
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		96.2 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		102 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2435117
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/02/24	
Surrogate: n-Nonane		87.4 %	50-200	08/30/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: IY		Batch: 2435123
Chloride	556	20.0	1	08/30/24	08/31/24	





# QC Summary Data

		<u>v</u> c 51		iry Data					
Matador Resources, LLC.		Project Name:	Ra	ay State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	3003-0002					
Dallas TX, 75240		Project Manager:	As	shley Giovengo				9/	/6/2024 8:04:16AM
		Volatile Organic	Common da har EDA 9260D		Analyst: BA				
Analyte		Reporting	Spike	Source		Rec		RPD	
Thatyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435115-BLK1)							Prepared: 0	8/30/24 Ana	lyzed: 09/03/24
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	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
-						70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-150			
LCS (2435115-BS1)							Prepared: 0	8/30/24 Ana	lyzed: 09/03/24
Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.8	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Matrix Spike (2435115-MS1)				Source: E	408264-	01	Prepared: 0	8/30/24 Ana	lyzed: 09/03/24
Benzene	2.36	0.0250	2.50	ND	94.5	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
Matrix Spike Dup (2435115-MSD1)				Source: E	408264-	01	Prepared: 0	8/30/24 Ana	lyzed: 09/03/24
Benzene	2.25	0.0250	2.50	ND	89.9	48-131	5.01	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135	4.54	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	4.28	24	
	2.50	0.0250	2.50	ND	100	43-135	1.45	27	
o-Xylene	4.98		5.00	ND	99.5	43-135	2.42	27	
p,m-Xylene	4.98 7.48	0.0500	5.00 7.50	ND	99.5 99.7	43-135	2.42	27 27	
Total Xylenes		0.0250		IND			2.10	21	
~ ~ ~ ~			0.500		99.2	70-130			
	0.496								
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.496 0.477		0.500 0.500		95.4	70-130 70-130 70-130			



## **QC Summary Data**

		QC DI		ily Data	•				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2.	ay State Slot 4 3003-0002 .shley Giovengo	)				<b>Reported:</b> 9/6/2024 8:04:16AM
	No	onhalogenated O	rganics	by EPA 801	5D - GR	0			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 (2435115-BLK1)							Prepared: 0	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS2)							Prepared: 0	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.7	20.0	50.0		79.4	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike (2435115-MS2)				Source: E	2408264-01		Prepared: 0	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2435115-MSD2)				Source: F	2408264-01		Prepared: 0	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	38.5	20.0	50.0	ND	77.1	70-130	1.74	20	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



## **QC Summary Data**

		QU DI							
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	1	Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/6/2024 8:04:16AM
	Nonh	alogenated Org	anics by	y EPA 8015D -	- DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2435117-BLK1)							Prepared: 0	8/30/24 A	analyzed: 09/01/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			
LCS (2435117-BS1)							Prepared: 0	8/30/24 A	analyzed: 09/01/24
Diesel Range Organics (C10-C28)	230	25.0	250		92.0	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			
Matrix Spike (2435117-MS1)				Source: E4	408260-	02	Prepared: 0	8/30/24 A	analyzed: 09/01/24
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.4	38-132			
Surrogate: n-Nonane	46.8		50.0		93.7	50-200			
Matrix Spike Dup (2435117-MSD1)				Source: E4	408260-	02	Prepared: 0	8/30/24 A	analyzed: 09/01/24
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.4	38-132	1.11	20	
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			



## **QC Summary Data**

				···· J = ····					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					Reported:
Dallas TX, 75240		Project Manager:		Ashley Giovengo	)				9/6/2024 8:04:16A
		Anions	by EPA	300.0/9056A					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 (2435123-BLK1)							Prepared: 0	8/30/24	Analyzed: 08/31/24
Chloride	ND	20.0							
LCS (2435123-BS1)							Prepared: 0	8/30/24	Analyzed: 08/31/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435123-MS1)				Source: I	E <b>408260-</b> (	03	Prepared: 0	8/30/24	Analyzed: 08/31/24
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2435123-MSD1)				Source: I	E <b>408260-</b> (	03	Prepared: 0	8/30/24	Analyzed: 08/31/24
Chloride	253	20.0	250	ND	101	80-120	0.0119	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.



	20111101		
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/06/24 08:04

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





#### **Chain of Custody**

Page \_

of

	Client Information Invoice Information																			TAT State															
	: Matador Production Company Ct: Ray State Slot 4 Ct Manager: Ashley Giovengo Company: Ensolum LLC Address: 3122 National City, State, Zip: Carlsbac										WO#			Job				1D 2	D 3D	Std	N	IM CC	UT	TX											
Project:	Ray State S	lot 4	Address: 3122 National       ey Giovengo       al Parks Hwy       ad NM, 88220       Solum.com         Sample Information       Matrix     No. of Containers				Parks Hw	/y	E	108	26	8	23	003	-00	DZ			X	X															
Project N	lanager: As	hley Giov	engo		_	Address: 3122 National Parl City, State, Zip: Carlsbad NM Phone: 575-988-0055 Email: agiovengo@ensolut Miscellaneous: Information Sample ID				NM, 882	220		-																						
						City, State, Zip: Carlsbad NN Phone: 575-988-0055 Email: agiovengo@ensolu Miscellaneous: nformation Sample ID					1					Ana	lysis	and	Met	nod	_	-			Progra										
			88220		_	Contraction of the local division of the loc	a series and	and the second s	o@ens	olum.co	m	_											SDW	AC	WA	RCRA									
	75-988-005					nformation Sample ID									1 8										-	1.1									
Email: a	giovengo@e	nsolum.c	om										015	115									Compl		Y	or N									
			_							_	1000		by 8(	by 8(	21	00	0.00	Σ	X	tals			PWSI	D#											
		_		Sam	ple Inforr	nation	_	_		_			/ORO	DRO L	N 80	ORO ov 80	V 80	0RO 1 0y 80	DRO I	y 82(	de 3(	C-N	- 500	8 Me				De	marke						
Time Sampled	Date Sampled	Matrix				Sample ID				Field	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				ке	marks											
1150	8/25/24	Soil	1	PHO	5 - 10	1						1						X																	
	*																																		
														-					_	-	-	-	-		~										
																										_									
				1								1																							
		-		-							-		-				_		-	-	-	-	-	_	_										
																						1													
																	-																		
												-									_														
				-										-		-				-	-				-										
			12								1																								
-					_						-		-								-	-	-												
															locto					h h d a		colum													
	al Instructions@ensolum		ase CC: ci	burton@e	ensolum.o	com, ag	loven	igo@er	nsolum	.com, cr	amiito	n@enso	ium.c	com,	lestr	enae	pens	olun	.con	i, bue	aleen	solum	i.com,												
, (field sam)	oler), attest to the	e validity and	dauthenticity	y of this samp	le. I am awa	re that tan	npering	with or in	ntentiona	lly mislabeli	ng the sar	nple locatio	n, date	or tim	e of co	ollectio	n is co	nsidere	d frau	d and m	ay be grou	unds for	r legal ac	tion.											
ampled by	Chad Ham	ilton_13	randon	12651			_		_							1						_													
11	ed by: (Signatu	re)	Date		Time	Re	ceived	by: (Sig	nature)	nanle	Date	and	Time	00							nal preserv cked in ice														
Im			81	29/24	0930	10	lich	relle	170	nanle		9-24		931				subsec	uent da	vs			2 - AL		iess than	o con									
Relinquish	d by: (Signatu	(Signature) Date Time Received by: (Signature)						Time Received by: (Signature)					Received by: (Signature)				Received by: (Signature) Date 8.29.				2020	Time	(									se Only	Y		
	elinquished by: (Signature) elinquished by: (Signature) elinquished by: (Signature) Date					Date	64.64	-		0	-		Rece	ived	on ic	e: (	Y) / N																		
Kelinguish																		30.20	Time	50	N			T1			тэ			тэ					
1.0						Date	3020	Time		U	-		<u>T1</u>	-		- 12			<u>_ T3</u>																
Relinquish						Date		inne			-		AVG	Tem	p°C	4																			
	rix: S - Soil, Sd - S					-					and the second se	ainer Ty		-			plasti	c, ag	amh	er gla	s, v - V	OA													
	ples are discard																		clien	t exper	se. The	report	for the	analysis	of the	above									
complex in	applicable only	to those s	amples rec	eived by the	e laboratory	with this	COC. 1	The liabi	ility of th	ne laborato	ry is limi	ted to the	amou	nt paid	d for d	on the	repo	rt.																	

<i>ccircu</i>	<i>by OCD: 3/21/2025 12:00:16 AM</i>	virotech	Analytica	l Laboratory	]	<i>Page 20</i> Printed: 8/30/2024 10:55:	
		Sample	Receipt Chee	cklist (SRC)			
	: Please take note of any NO checkmarks. e no response concerning these items within 24 hours of the c	late of this not	ice, all the samp	les will be analyzed as a	requested.		
Client:	Matador Resources, LLC. Da	te Received:	08/30/24 05:00	)	Work Order ID:	E408268	
Phone: Email:		te Logged In: e Date:	08/30/24 05:00 09/06/24 17:00		Logged In By:	Keyliegh Hall	
Chain o	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	the COC	Yes				
	samples dropped off by client or carrier?		Yes	Carrier:			
	ne COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Carrier.			
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e. 15 minute hold time, are not included in this disucssion.	-	Yes		Commer	its/Resolution	
Sample	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	• •		140				
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
• •	-						
	he sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are rec minutes of sampling	eived w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4</u> °	<u>C</u>				
	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				
18. Are 1	non-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample containers	collected?	Yes				
Field La	bel						
	field sample labels filled out with the minimum information	ation:					
	Sample ID?		Yes				
	Date/Time Collected? Collectors name?		Yes				
			Yes				
-	<u>Preservation</u>	mado	No				
	the COC or field labels indicate the samples were prese sample(s) correctly preserved?	i veu:	No NA				
	sample(s) correctly preserved?	109	NA No				
		15 ;	INU				
-	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 analyzed	1?	NA				
Subcont	ract Laboratory_						
	samples required to get sent to a subcontract laboratory?		No				
	a subcontract laboratory specified by the client and if so	who?	NA Sub	contract Lab: N/A			
	· · · ·						

**Client Instruction** 

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



•





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:

Ray State Slot 4

Work Order: E408271

Job Number: 23003-0002

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/5/24

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: 9/5/24

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

Project Name: Ray State Slot 4 Workorder: E408271 Date Received: 8/30/2024 5:00:00AM

Ashley Giovengo,



Page 207 of 432

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
PH04-0'	6
PH04-1'	7
PH05-0'	8
PH05-2'	9
PH05-4'	10
PH05-6'	11
PH05-8'	12
PH06-0'	13
PH06-2'	14
PH06-4'	15
PH06-6'	16
PH06-8'	17
PH06-10'	18
PH06-11'	19
PH07-0'	20
PH07-2'	21
PH07-4'	22
PH07-6'	23
QC Summary Data	24
QC - Volatile Organics by EPA 8021B	24

•

# Table of Contents (continued)

	QC - Nonhalogenated Organics by EPA 8015D - GRO	25
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	26
	QC - Anions by EPA 300.0/9056A	27
D	efinitions and Notes	28
С	hain of Custody etc.	29

#### **Sample Summary**

	Sample Sum	mai y		
rces, LLC. Project Name: Ray State Slot 4 way, Suite 1500 Project Number: 23003-0002 40 Project Manager: Ashley Giovengo			<b>Reported:</b> 09/05/24 12:43	
Lab Sample ID	Matrix	Sampled	Received	Container
E408271-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-02A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-03A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-04A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-05A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-06A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-07A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-08A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-09A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-10A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-11A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-12A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-13A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-14A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-15A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-16A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-17A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
E408271-18A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
	E408271-01A E408271-02A E408271-03A E408271-04A E408271-05A E408271-05A E408271-06A E408271-07A E408271-09A E408271-09A E408271-10A E408271-11A E408271-13A E408271-15A E408271-16A E408271-17A	Lab Sample ID         Matrix           E408271-01A         Soil           E408271-02A         Soil           E408271-03A         Soil           E408271-03A         Soil           E408271-03A         Soil           E408271-04A         Soil           E408271-05A         Soil           E408271-05A         Soil           E408271-05A         Soil           E408271-06A         Soil           E408271-07A         Soil           E408271-07A         Soil           E408271-07A         Soil           E408271-07A         Soil           E408271-07A         Soil           E408271-07A         Soil           E408271-08A         Soil           E408271-08A         Soil           E408271-10A         Soil           E408271-10A         Soil           E408271-11A         Soil           E408271-12A         Soil           E408271-13A         Soil           E408271-14A         Soil           E408271-15A         Soil           E408271-16A         Soil           E408271-16A         Soil	Project Name:         Ray State Slot 4           Project Number:         23003-0002           Project Manager:         Ashley Giovengo           Lab Sample ID         Matrix         Sampled           E408271-01A         Soil         08/28/24           E408271-02A         Soil         08/28/24           E408271-03A         Soil         08/28/24           E408271-04A         Soil         08/28/24           E408271-05A         Soil         08/28/24           E408271-05A         Soil         08/28/24           E408271-06A         Soil         08/28/24           E408271-06A         Soil         08/28/24           E408271-07A         Soil         08/28/24           E408271-07A         Soil         08/28/24           E408271-08A         Soil         08/28/24           E408271-08A         Soil         08/28/24           E408271-08A         Soil         08/28/24           E408271-10A         Soil         08/28/24           E408271-10A         Soil         08/28/24           E408271-11A         Soil         08/28/24           E408271-12A         Soil         08/28/24           E408271-13A         Soil	Project Number: Project Manager:23003-0002 Ashley GiovengoLab Sample IDMatrixSampledReceivedE408271-01ASoil08/28/2408/30/24E408271-02ASoil08/28/2408/30/24E408271-03ASoil08/28/2408/30/24E408271-04ASoil08/28/2408/30/24E408271-05ASoil08/28/2408/30/24E408271-06ASoil08/28/2408/30/24E408271-06ASoil08/28/2408/30/24E408271-07ASoil08/28/2408/30/24E408271-07ASoil08/28/2408/30/24E408271-09ASoil08/28/2408/30/24E408271-10ASoil08/28/2408/30/24E408271-11ASoil08/28/2408/30/24E408271-12ASoil08/28/2408/30/24E408271-13ASoil08/28/2408/30/24E408271-15ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-17ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-16ASoil08/28/2408/30/24E408271-17ASoil0



		1				
Matador Resources, LLC.	Project Name	e: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Num	ber: 2300	23003-0002			Reported:
Dallas TX, 75240	Project Mana	iger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH04-0'				
		E408271-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	t: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
thylbenzene	ND	0.0250	1	08/30/24	08/31/24	
oluene	ND	0.0250	1	08/30/24	08/31/24	
-Xylene	ND	0.0250	1	08/30/24	08/31/24	
,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
otal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
urrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435125	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	08/30/24	08/31/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
urrogate: n-Nonane		85.8 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2435132
Chloride	870	20.0	1	08/30/24	08/30/24	

## Sample Data



## Sample Data

	0	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	ber: 2300	State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo	)		9/5/2024 12:43:34PM
		PH04-1'				
		E408271-02				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	А	nalyst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
thylbenzene	ND	0.0250	1	08/30/24	08/31/24	
oluene	ND	0.0250	1	08/30/24	08/31/24	
-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/31/24	
urrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: BA		Batch: 2435125	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		84.7 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	.nalyst: IY		Batch: 2435132
Chloride	472	20.0	1	08/30/24	08/30/24	



## Sample Data

		ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/5/2024 12:43:34PM
		PH05-0'				
		E408271-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Toluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435125	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		84.4 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2435132
Chloride	2540	40.0	2	08/30/24	08/30/24	



## Sample Data

	0	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 4 03-0002 ley Giovengo	)		<b>Reported:</b> 9/5/2024 12:43:34PM
		PH05-2'				
		E408271-04				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	А	nalyst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Toluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	rg Analyst: BA		Batch: 2435125	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		90.3 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	.nalyst: IY		Batch: 2435132
Chloride	1330	20.0	1	08/30/24	08/30/24	



## Sample Data

	5	ample D	ลเล			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numb	•	State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH05-4'				
		E408271-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Toluene	ND	0.0250	1	08/30/24	08/31/24	
o-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	'kg Analyst: BA		Batch: 2435125	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		85.4 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2435132
Chloride	2280	20.0	1	08/30/24	08/30/24	



## Sample Data

	5	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/5/2024 12:43:34PM
Danas 1A, 75240	Flojeet Mallag		ley Gloveligo			7/3/2024 12:+3:3+1 W
		PH05-6'				
		E408271-06				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Toluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g/kg Analyst: BA		Batch: 2435125	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		84.9 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2435132
Chloride	1840	20.0	1	08/30/24	08/30/24	


# Sample Data

	0	ample D	ลเล			
Matador Resources, LLC.	Project Name	:: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	03-0002	Reported:		
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH05-8'				
		E408271-07				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Foluene	ND	0.0250	1	08/30/24	08/30/24	
p-Xylene	ND	0.0250	1	08/30/24	08/30/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/30/24	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		89.1 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2435132
Chloride	319	20.0	1	08/30/24	08/30/24	



# Sample Data

	b	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	ber: 230	State Slot 4 03-0002				Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Gioveng	ço			9/5/2024 12:43:34PM
		PH06-0'					
		E408271-08					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	1	Analyst: I	BA		Batch: 2435125
Benzene	ND	0.0250	1		08/30/24	08/31/24	
thylbenzene	ND	0.0250	1		08/30/24	08/31/24	
oluene	ND	0.0250	1		08/30/24	08/31/24	
-Xylene	ND	0.0250	1		08/30/24	08/31/24	
,m-Xylene	ND	0.0500	1		08/30/24	08/31/24	
otal Xylenes	ND	0.0250	1		08/30/24	08/31/24	
urrogate: 4-Bromochlorobenzene-PID		100 %	70-130		08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/30/24	08/31/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130		08/30/24	08/31/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: N	٨V		Batch: 2435135
Diesel Range Organics (C10-C28)	277	25.0	1		08/30/24	09/04/24	
Dil Range Organics (C28-C36)	380	50.0	1		08/30/24	09/04/24	
urrogate: n-Nonane		86.2 %	50-200		08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2435132
Chloride	1460	20.0	1		08/30/24	08/30/24	



# Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	ber: 230	State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH06-2'				
		E408271-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
thylbenzene	ND	0.0250	1	08/30/24	08/31/24	
oluene	ND	0.0250	1	08/30/24	08/31/24	
-Xylene	ND	0.0250	1	08/30/24	08/31/24	
,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
otal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
urrogate: 4-Bromochlorobenzene-PID		100 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	08/30/24	08/31/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
urrogate: n-Nonane		86.7 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2435132
Chloride	2390	40.0	2	08/30/24	08/30/24	



# Sample Data

	5	ample D	ata			
Matador Resources, LLC.	Project Name:	Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numbe	er: 230	03-0002		Reported:	
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH06-4'				
		E408271-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Foluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		87.2 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2435132
Chloride	2790	100	5	08/30/24	08/30/24	



# Sample Data

	0	ample D	ลเล			
Matador Resources, LLC.	Project Name	:: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230		Reported:		
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH06-6'				
		E408271-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Foluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		85.5 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2435132
Chloride	2380	40.0	2	08/30/24	08/30/24	



# Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numb	-	State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Manag		ley Giovengo			9/5/2024 12:43:34PM
		PH06-8'				
		E408271-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ithylbenzene	ND	0.0250	1	08/30/24	08/31/24	
oluene	ND	0.0250	1	08/30/24	08/31/24	
-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/31/24	
urrogate: 4-Bromochlorobenzene-PID		100 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		84.7 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2435132
Chloride	1540	20.0	1	08/30/24	08/30/24	



# Sample Data

	50	imple D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/5/2024 12:43:34PM
		PH06-10'				
	]	E408271-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Toluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		83.0 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	ıt: IY		Batch: 2435132
Chloride	236	20.0	1	08/30/24	08/31/24	



# Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/5/2024 12:43:34PM
		PH06-11'				
		E408271-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Toluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: NV			Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		91.7 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2435132
Chloride	250	20.0	1	08/30/24	08/31/24	



# Sample Data

	3	ample D	ลเล			
Matador Resources, LLC.	Project Name	: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb	per: 230	03-0002	Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH07-0'				
		E408271-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Foluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	545	25.0	1	08/30/24	09/04/24	
Oil Range Organics (C28-C36)	1840	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		90.1 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2435132
Chloride	3990	40.0	2	08/30/24	08/31/24	



# Sample Data

	Si	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numbe	-	State Slot 4 03-0002			Denestada
Dallas TX, 75240	Project Number		ley Giovengo	<b>Reported:</b> 9/5/2024 12:43:34PM		
	I Tojeet Manag	,ci. Asii	icy diovengo			<i>5,5,202</i> 1 12.15.5 H M
		PH07-2'				
		E408271-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Toluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		85.0 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2435132
Chloride	3050	40.0	2	08/30/24	08/31/24	



# Sample Data

	Di Di	ample D	ala			
Matador Resources, LLC.	Project Name:	-	State Slot 4			Derreute de
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Number Project Manag		23003-0002 Ashley Giovengo			<b>Reported:</b> 9/5/2024 12:43:34PM
Danas 1A, 75240	i toject ivialiag	3ci. Asii	icy Gloveligo			<i>5,5,202</i> 1 12.15.5 H M
		PH07-4'				
		E408271-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Foluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		87.3 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2435132
Chloride	821	40.0	2	08/30/24	08/31/24	



# Sample Data

	5	ample D	ลเล			
Matador Resources, LLC.	Project Name:	: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb	er: 230	03-0002	Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/5/2024 12:43:34PM
		PH07-6'				
		E408271-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2435125
Benzene	ND	0.0250	1	08/30/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/31/24	
Foluene	ND	0.0250	1	08/30/24	08/31/24	
p-Xylene	ND	0.0250	1	08/30/24	08/31/24	
o,m-Xylene	ND	0.0500	1	08/30/24	08/31/24	
Fotal Xylenes	ND	0.0250	1	08/30/24	08/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2435125
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	08/30/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2435135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		90.7 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2435132
Chloride	2870	40.0	2	08/30/24	08/31/24	



# QC Summary Data

				J					
Matador Resources, LLC.		Project Name:	Ra	y State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	003-0002					•
Dallas TX, 75240		Project Manager:	As	shley Giovengo	o				9/5/2024 12:43:34PM
		Volatile Or	rganics b	y EPA 802	1B				Analyst: BA
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435125-BLK1)							Prepared: 0	8/30/24 A	analyzed: 08/30/24
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	7.92		8.00		99.0	70-130			
LCS (2435125-BS1)							Prepared: 0	8/30/24 A	analyzed: 08/30/24
Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.16	0.0250	5.00		103	70-130			
o-Xylene	5.04	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		98.9	70-130			
Matrix Spike (2435125-MS1)				Source: I	E <b>408271-</b>	07	Prepared: 0	8/30/24 A	analyzed: 08/30/24
Benzene	5.53	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.30	0.0250	5.00	ND	106	61-133			
Toluene	5.43	0.0250	5.00	ND	109	61-130			
o-Xylene	5.30	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
Matrix Spike Dup (2435125-MSD1)				Source: I	E <b>408271-</b>	07	Prepared: 0	8/30/24 A	analyzed: 08/30/24
Benzene	5.33	0.0250	5.00	ND	107	54-133	3.67	20	
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133	3.19	20	
Toluene	5.25	0.0250	5.00	ND	105	61-130	3.52	20	
o-Xylene	5.13	0.0250	5.00	ND	103	63-131	3.33	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	3.14	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	3.20	20	



# **QC Summary Data**

				- )					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 3003-0002 .shley Giovengo					<b>Reported:</b> 9/5/2024 12:43:34PM
Duilus 111, 75210	No	nhalogenated O		, ,		RO			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 (2435125-BLK1)							Prepared: 0	8/30/24	Analyzed: 08/30/24
Gasoline Range Organics (C6-C10)	ND	20.0					Trepured. 0	0/00/211	indiy200. 00/30/21
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			
LCS (2435125-BS2)							Prepared: 0	8/30/24 <i>A</i>	Analyzed: 08/30/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0		85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			
Matrix Spike (2435125-MS2)				Source: E	408271-	07	Prepared: 0	8/30/24 A	Analyzed: 08/31/24
Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			
Matrix Spike Dup (2435125-MSD2)				Source: E	408271-	07	Prepared: 0	8/30/24 A	Analyzed: 08/31/24
Gasoline Range Organics (C6-C10)	38.0	20.0	50.0	ND	76.0	70-130	7.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			



# **QC Summary Data**

		QC D	u 111111	ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/5/2024 12:43:34PM
	Nonh	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2435135-BLK1)							Prepared: 0	8/30/24 <i>A</i>	Analyzed: 09/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	35.4		50.0		70.7	50-200			
LCS (2435135-BS1)							Prepared: 0	8/30/24 A	Analyzed: 09/04/24
Diesel Range Organics (C10-C28)	173	25.0	250		69.3	38-132			
Surrogate: n-Nonane	41.2		50.0		82.4	50-200			
Matrix Spike (2435135-MS1)				Source: E	408271-	06	Prepared: 0	8/30/24 A	Analyzed: 09/04/24
Diesel Range Organics (C10-C28)	201	25.0	250	ND	80.3	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			
Matrix Spike Dup (2435135-MSD1)				Source: E	408271-	06	Prepared: 0	8/30/24 A	Analyzed: 09/04/24
Diesel Range Organics (C10-C28)	215	25.0	250	ND	86.2	38-132	7.04	20	
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					Reported:
Dallas TX, 75240		Project Manager:		Ashley Giovengo	)				9/5/2024 12:43:34P
		Anions	by EPA	300.0/9056A					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 (2435132-BLK1)							Prepared: 0	8/30/24	Analyzed: 08/30/24
Chloride	ND	20.0							
LCS (2435132-BS1)							Prepared: 0	8/30/24	Analyzed: 08/30/24
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2435132-MS1)				Source: I	E <b>408271-</b> (	)7	Prepared: 0	8/30/24	Analyzed: 08/30/24
Chloride	584	20.0	250	319	106	80-120			
Matrix Spike Dup (2435132-MSD1)				Source: I	E <b>408271-</b> (	)7	Prepared: 0	8/30/24	Analyzed: 08/30/24
Chloride	568	20.0	250	319	99.6	80-120	2.64	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.



_				
Γ	Matador Resources, LLC.	Project Name:	Ray State Slot 4	
	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/05/24 12:43

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: 4/21/2025 3:13:23 PM

	Clie	nt Inform	nation			Invoice Infor	mation			1	La	ab Us	se Or	nly				TA	T			Stat	e
Client: I	Matador Prod	duction C	ompany			Company: Ensolum LLC			La	b WO	ŧ		Job	Num	ber		1D	2D	3D Std		NM	CO UT	TX
Project:	Ray State S	lot 4			_	Address: 3122 National	Parks Hwy		_ E	408	321	1	23	00	3-0	002			X		Х		
Project I	Manager: As	hley Giov	engo			City, State, Zip: Carlsbad	NM, 88220		_														
Address	3122 Natio	nal Parks	Hwy			Phone: 575-988-0055			_				Ana	alysis	and	Met	hod				EF	PA Progr	
City, Sta	te, Zip: Carls	bad NM,	88220	_		Email: agiovengo@ens	solum.com	_	_			1								SD	WA	CWA	RCRA
	575-988-005					Miscellaneous:																	-
Email: a	giovengo@e	nsolum.c	om					_		8015	015									and the second second	plian	ce Y	or N
										by 8(	by 80	21	00	0.00	Σ	¥	tals			PWS	SID #		
		-		Sam	ple Infor	mation				2 Q	DRO I	y 80	y 826	de 30	2 - N	- 500	8 Me					Demark	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID		Filter	Lab Numbe	er DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				_	Remark	>
0832	\$ 28/24	Soil	1	PHO	14-0	1			1						χ								
0935	8/28/24	Soil	1	PHI	54-1	i			2						X								
1026	8/28/24	Soil	1	PHO	15 - 0	1			3						X								
1035	8/28/24	50:1	1	PHO	5-2	. (			4						X								
1056	6/28/24	50:1	1	PHO	5-1	l'			5						X								
1103	8/28/24	50:1	1	PHO	) 5 - (	¢ í			6						X								
1126	\$/28/24	Soil	l	PHO	05-4	,1			7						X								
1312	\$/28/24	50:1	1	PHO	6-0	) (			8						X								
1316	8/28/24	Soil	L	PHO	6-2	(			9						X								
1334	8/28/24	50:1	1	PHO	16-1	11			10	)					X								
Additio	nal Instructio	ons: Ple	ase CC: cl	ourton@e	ensolum.	com, agiovengo@ensolun	n.com, cham	ilto	n@ens	olum.	com,	iest	rella	@ens	olur	n.cor	n, bo	deal@	Pensolur	n.cor	m,		
	ns@ensolur												12		- 1								
					ole. I am awa	are that tampering with or intention	ally mislabeling th	ne san	ple locat	tion, date	or tim	ne of co	ollectio	on is co	nsider	ed frau	id and	may b	e grounds fo	r legal	action	÷)	
	:Chad Han				170.00	De .: 11 (6:	4	Data		Time		_	1		Samo	les rem	uring th	nermal n	reservation m	ust he	received	on ice the r	av they are
m			Date G[1	29/24	Time D930			Date 8'c	19.24	10	93	D			samp		eceived		in ice at an a	/g temp	above		
Vilic	helle G	onzal		29.24	Time 1.44				29.2	4 1(	-40				Rec	eive	d on	ice:	Lab U		nly		
Relinquis	ned by: (Signatu <b>H</b> .	ire)		29.24	Time 230		tell	_	30.2		50	0			<u>T1</u>				<u>T2</u>		_	<u>T3</u>	
Relinquis	ned by: (Signatu	ire)	Date		Time	Received by: (Signature)		Date		Time					AVO	5 Ter	np°q	c 4					

**Chain of Custody** 

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

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

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

B

eceived by OCD: 3/21/2025 12:00:16 AM

Page 29 of 31

envirotecles

# **Chain of Custody**

Page \_2 of \_2

	Clie	nt Inform	ation				Invo	oice Ir	formation					Lab U	se O	only			TAT					State	
lient: N	Aatador Proc	luction Co	mpany			Compar	ny: Enso	olum	LLC		La	ab W	O#		10000000	Num			1D 2	D 3	D Sto	ł	NM	COUT	TX
Project:	Ray State S	lot 4				Addres	s: 3122	Natio	nal Parks Hy	NY.	E	40	82	71_	2:	300	3-0	202			X		X		
Project N	Aanager: As	hley Giove	engo			City, Sta	ate, Zip:	Carls	bad NM, 88	220		_					-					-			
Address:	3122 Natio	nal Parks	Hwy		_	Phone:	575-98	88-00	55	-	_			_	An	alysis	s and	Met	hod	-				A Progra	1
	e, Zip: Carls		88220			Email:	agiove	engo@	ensolum.cc	m												SI	DWA	CWA	RCR.
	575-988-005			_	_	Miscella	neous:															-		1	
Email: a	giovengo@e	nsolum.co	om									1	8015									-	mpliance	e Y	or
		_			le Inform	-						- 0	bv 8(	021	60	0.00	ž	×1-	etals			PV	VSID #		
Time				Samp	ne morm						Lah		DRO	by 8	by 82	ide 3	00-1	1005	8 M				ł	Remarks	
Sampled	Date Sampled	Matrix	No. of Containers			Sam	ple ID			Fiel	Lab Numb	er a	CLUX VA ONO/ONU GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals						
338	8/28/24	Soil	1	PHO	6-6'						11						X								
	8/28/24	Spil	1.		6-3'						12						χ								
	6/28/24	Spil	1-		e -10"						13						X								
1412	8/20/24	Sail	1.		6-11						14						X								
1	6/28/24	Soil	1-	-	7-0'					1	15						V								
	1	2011	1.								1-		-	-	-	-	A	-		-	-	-			
	6/28/24	5011	l		7.2'	_					16	2	-	-	-	-	X			-	-	-			
0-1	8/25/24	Soil	1	PHO	7-4						17						X				_				
1508	4/28/24	50:1	1	PHO	7-6	l					18	1					X								
			X	BD																				-	
			1	BD																					
Addition	al Instructio	ns: Plea	se CC: cl	0	nsolum.co	om, agio	ovengo@	@enso	lum.com, c	hamilto	n@ens	olun	n.con	n, iest	rella	a@en	solur	n.cor	n, bde	al@e	ensolu	m.co	om,		
	ns@ensolun						-				_	_				_							_		
	pler), attest to the	12	shrden		e. I am awar	e that tamp	pering with	or inten	tionally mislabe	ling the sar	nple loca	tion, da	ate or t	ime of c	ollecti	ion is co	onsider	ed frau	id and ma	ay be g	grounds f	or leg	al action.		
	ed by: (Signatu		Date		Time	Rom	aived by	Signate		Date		Ti	me		T		Samp	les requ	iring therr	nal pre	servation	must b	e received o	on ice the da	y they are
The	eu by. (Signatu	ie)		29/24	0130	101	ichell	C C	ne) Jonzale	8 8.3	19.20		093	10									mp above 0		
		re) a		An and the second se	Time	Rece	eived by: (			Date	-	Tir	me		-		subse	ouent o	avs		Labl	Jse (	Only		
Wic	ed by: (Signatu	onzale	8 8.	29.24	11.4	0 .	f.H.			8.	29,2	41	164	0			Rec	eived	d on ice	e:	01	N	14.6		
Relinquish	ed by: (Signatu	re)	Date	:	Time	Rec	eived by: (		ure)	Date	1	Ti	me												
1.3	(.	~	8.	29.24	2300		ulu	ph 1	Lifell	8-	30.20	40	054	00			<u>T1</u>		_	_ ]	2		0	Т3	_
Relinquish	ed by: (Signatu	re)	Date		Time	Rec	eived by: (	(Signatu	ure)	Date		Ti	me					Ter	np °C	4					
Sample Mat	rix: S - Soil, Sd - S	olid, Sg - Sluc	ige, A - Aqu	eous, <b>O</b> - Othe	r			-	-	Cont	tainer T	ype:	g - gla	ss, p -	poly	/plast	ic, ag	- am	her glas	55, V -	VOA	1			
Note: Sam	ples are discard	ded 14 days	after resu	Its are report	ted unless o					samples	will be r	eturne	ed to c	lient o	r disp	osed c	of at th	e clie	nt exper	nse. T	he repor	rt for	the analy	sis of the	above
	applicable only																								

# **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Da	te Received:	08/30/24	05:00	Work Order ID:	E408271
Phone:	(972) 371-5200 Da	te Logged In:	08/30/24	07:03	Logged In By:	Keyliegh Hall
Email:		ie Date:		17:00 (4 day TAT)	88	
Chain o	f Custody (COC)					
1. Does 1	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Couier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comment	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	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	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample tem	nperature: 4°	С			
	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			
19. Is the	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	bel					
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
	Preservation	mod?	No			
	s the COC or field labels indicate the samples were prese sample(s) correctly preserved?	4 vCU !	No NA			
	o filteration required and/or requested for dissolved meta	ls?	NA			
			INU			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	40	No			
27. II ye	s, does the COC specify which phase(s) is to be analyzed	11	NA			
	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so		NA			

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



•





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:

Ray State Slot 4

Work Order: E408283

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: Ray State Slot 4 Workorder: E408283 Date Received: 9/3/2024 5:00:00AM

Ashley Giovengo,



Page 238 of 432

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: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH07-8'	5
PH07-10'	6
PH07-12'	7
PH07-14'	8
PH07-16'	9
PH08-0'	10
PH08-2'	11
PH08-4'	12
PH08-6'	13
PH08-8'	14
PH08-10'	15
PH08-12'	16
SS03-0'	17
QC Summary Data	18
QC - Volatile Organics by EPA 8021B	18
QC - Nonhalogenated Organics by EPA 8015D - GRO	19
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	20
QC - Anions by EPA 300.0/9056A	21
Definitions and Notes	22
Chain of Custody etc.	23

#### Sample Summarv

		Sample Sum	mary		
Matador Resources, LLC.		Project Name:	Ray State Slot 4		Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23003-0002		Reportedi
Dallas TX, 75240		Project Manager:	Ashley Giovengo		09/09/24 11:59
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
РН07-8'	E408283-01A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH07-10'	E408283-02A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH07-12'	E408283-03A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH07-14'	E408283-04A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH07-16'	E408283-05A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH08-0'	E408283-06A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH08-2'	E408283-07A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH08-4'	E408283-08A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH08-6'	E408283-09A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH08-8'	E408283-10A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH08-10'	E408283-11A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
PH08-12'	E408283-12A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SS03-0'	E408283-13A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.



		ampie D				
Matador Resources, LLC.	Project Name	e: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Num	ber: 2300	03-0002			Reported:
Dallas TX, 75240	Project Mana	ager: Ash	ley Giovengo			9/9/2024 11:59:18AN
		PH07-8'				
		E408283-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
Surrogate: n-Nonane		97.6 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2436018
Chloride	1230	20.0	1	09/03/24	09/04/24	

# Sample Data



# Sample Data

	5	ampie D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/9/2024 11:59:18AM
		PH07-10'				
		E408283-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		88.1 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
Surrogate: n-Nonane		103 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2436018
Chloride	1160	20.0	1	09/03/24	09/04/24	



# Sample Data

	56	ampic D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/9/2024 11:59:18AM
		PH07-12'				
		E408283-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	ıt: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		88.9 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
Surrogate: n-Nonane		95.3 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2436018
Chloride	768	20.0	1	09/03/24	09/04/24	



# Sample Data

		ampie D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/9/2024 11:59:18AM
		PH07-14'				
		E408283-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		88.3 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2436008		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
Surrogate: n-Nonane		96.0 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2436018
Chloride	653	20.0	1	09/03/24	09/04/24	



# Sample Data

	6	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	ber: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/9/2024 11:59:18AM
		PH07-16'				
		E408283-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		89.8 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
Surrogate: n-Nonane		98.7 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2436018
Chloride	672	20.0	1	09/03/24	09/04/24	



# Sample Data

	D	ampic D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/9/2024 11:59:18AM
		PH08-0'				
		E408283-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		88.2 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys		Batch: 2436008	
Diesel Range Organics (C10-C28)	516	25.0	1	09/03/24	09/03/24	
Dil Range Organics (C28-C36)	152	50.0	1	09/03/24	09/03/24	
Surrogate: n-Nonane		99.7 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2436018
Chloride	2760	40.0	2	09/03/24	09/04/24	



# Sample Data

	2	bample D	ลเล			
Matador Resources, LLC.	Project Nam	e: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Num	ber: 230	03-0002			Reported:
Dallas TX, 75240	Project Mana	ager: Ash	ley Giovengo			9/9/2024 11:59:18AM
		PH08-2'				
		E408283-07				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
Surrogate: n-Nonane		101 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2436018
Chloride	1680	20.0	1	09/03/24	09/04/24	



# Sample Data

	5	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manaş	er: 230	State Slot 4 03-0002 ley Gioveng			<b>Reported:</b> 9/9/2024 11:59:18AM
		PH08-4'				
		E408283-08				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepa	red Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	Analyst: CG		Batch: 2436015
Benzene	ND	0.0250	1	09/03	/24 09/05/24	
Ethylbenzene	ND	0.0250	1	09/03	/24 09/05/24	
oluene	ND	0.0250	1	09/03	/24 09/05/24	
-Xylene	ND	0.0250	1	09/03	/24 09/05/24	
o,m-Xylene	ND	0.0500	1	09/03	/24 09/05/24	
fotal Xylenes	ND	0.0250	1	09/03	/24 09/05/24	
urrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	09/03	/24 09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03	/24 09/05/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	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	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03	/24 09/04/24	
Surrogate: n-Nonane		95.7 %	50-200	09/03	/24 09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2436018
Chloride	1750	20.0	1	09/03	/24 09/04/24	



# Sample Data

	5	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/9/2024 11:59:18AM
		PH08-6'				
		E408283-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2436015
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Foluene	ND	0.0250	1	09/03/24	09/05/24	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID		90.1 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana		Batch: 2436008	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		102 %	50-200	09/03/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2436018
Chloride	1680	20.0	1	09/03/24	09/04/24	



# Sample Data

	3	ample D	ลเล			
Matador Resources, LLC.	Project Name	: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb	er: 2300	03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			9/9/2024 11:59:18AM
		PH08-8'				
		E408283-10				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: CG		Batch: 2436015
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
p-Xylene	ND	0.0250	1	09/03/24	09/04/24	
o,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Fotal Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: 4-Bromochlorobenzene-PID		86.4 %	70-130	09/03/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	09/03/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2436008
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		103 %	50-200	09/03/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2436018
Chloride	613	20.0	1	09/03/24	09/04/24	



# Sample Data

	<b>D</b>	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Manag		ley Giovengo			9/9/2024 11:59:18AM
		PH08-10'				
		E408283-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,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: 4-Bromochlorobenzene-PID		90.0 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	Batch: 2436008		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		95.5 %	50-200	09/03/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2436018
Chloride	812	20.0	1	09/03/24	09/04/24	



# Sample Data

	56	imple D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/9/2024 11:59:18AM
		PH08-12'				
	-	E408283-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2436015
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	
p-Xylene	ND	0.0250	1	09/03/24	09/05/24	
o,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: 4-Bromochlorobenzene-PID		88.1 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	Analy	st: DT		Batch: 2436018
Chloride	670	20.0	1	09/03/24	09/04/24	


#### Sample Data

	56	ample D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/9/2024 11:59:18AM
		SS03-0'				
		E408283-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	s by EPA 8021B mg/kg mg/kg Analyst: CG					Batch: 2436015
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	
o,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: 4-Bromochlorobenzene-PID		90.1 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2436015
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	09/03/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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		101 %	50-200	09/03/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2436018
Chloride	45.5	20.0	1	09/03/24	09/04/24	



#### QC Summary Data

				v					
Matador Resources, LLC.		Project Name:	Ra	ay State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	003-0002					
Dallas TX, 75240		Project Manager:	As	shley Gioveng	0				9/9/2024 11:59:18AM
		Volatile Or	ganics b	oy EPA 802	1B				Analyst: CG
Analyte		Reporting	Spike	Source		Rec		RPD	
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2436015-BLK1)							Prepared: 0	9/03/24 A	analyzed: 09/04/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.6	70-130			
LCS (2436015-BS1)							Prepared: 0	9/03/24 A	analyzed: 09/04/24
Benzene	3.86	0.0250	5.00		77.2	70-130			
Ethylbenzene	3.63	0.0250	5.00		72.7	70-130			
Toluene	3.76	0.0250	5.00		75.2	70-130			
p-Xylene	3.60	0.0250	5.00		72.1	70-130			
o,m-Xylene	7.38	0.0500	10.0		73.8	70-130			
Fotal Xylenes	11.0	0.0250	15.0		73.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			
Matrix Spike (2436015-MS1)				Source:	E408283-	10	Prepared: 0	9/03/24 A	analyzed: 09/05/24
Benzene	4.45	0.0250	5.00	ND	89.0	54-133			
Ethylbenzene	4.23	0.0250	5.00	ND	84.6	61-133			
Toluene	4.36	0.0250	5.00	ND	87.3	61-130			
o-Xylene	4.20	0.0250	5.00	ND	84.1	63-131			
p,m-Xylene	8.59	0.0500	10.0	ND	85.9	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.9	70-130			
Matrix Spike Dup (2436015-MSD1)				Source:	E408283-	10	Prepared: 0	9/03/24 A	analyzed: 09/05/24
Benzene	5.02	0.0250	5.00	ND	100	54-133	12.0	20	
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133	12.6	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	12.2	20	
p-Xylene	4.77	0.0250	5.00	ND	95.3	63-131	12.6	20	
	0.54	0.0500	10.0	ND	97.4	63-131	12.5	20	
o,m-Xylene	9.74	0.0500	10.0	ND	97.4	05 151	12.0	20	



#### **QC Summary Data**

		QU D	umm	ii y Data	L				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	23	ay State Slot 4 3003-0002 shley Giovengo	)				<b>Reported:</b> 9/9/2024 11:59:18AM
	Noi	nhalogenated (	Organics	by EPA 801	5D - Gl	RO			Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2436015-BLK1)							Prepared: 0	9/03/24 A	analyzed: 09/04/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			
LCS (2436015-BS2)							Prepared: 0	9/03/24 A	analyzed: 09/04/24
Gasoline Range Organics (C6-C10)	35.6	20.0	50.0		71.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			
Matrix Spike (2436015-MS2)				Source: I	E <b>408283</b> -	10	Prepared: 0	9/03/24 A	nalyzed: 09/05/24
Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			
Matrix Spike Dup (2436015-MSD2)				Source: I	E <b>408283</b> -	10	Prepared: 0	9/03/24 A	nalyzed: 09/05/24
Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.2	70-130	3.91	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			



#### **QC Summary Data**

		QU DI		lary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/9/2024 11:59:18AM
	Nonh	alogenated Org	anics b	y EPA 8015D -	DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2436008-BLK1)							Prepared: 0	9/03/24 A	Analyzed: 09/03/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			
LCS (2436008-BS1)							Prepared: 0	9/03/24 A	Analyzed: 09/03/24
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			
Matrix Spike (2436008-MS1)				Source: E4	108283-	01	Prepared: 0	9/03/24 A	Analyzed: 09/03/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			
Matrix Spike Dup (2436008-MSD1)				Source: E4	108283-	01	Prepared: 0	9/03/24 A	Analyzed: 09/03/24
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	3.76	20	
Surrogate: n-Nonane	48.1		50.0		96.1	50-200			



#### **QC Summary Data**

				J –	-				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					Reported:
Dallas TX, 75240		Project Manager		Ashley Giovenge	0				9/9/2024 11:59:18AM
		Anions	by EPA	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 (2436018-BLK1)							Prepared: 0	9/03/24 A	Analyzed: 09/04/24
Chloride	ND	20.0							
LCS (2436018-BS1)							Prepared: 0	9/03/24 A	Analyzed: 09/04/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2436018-MS1)				Source: I	E <b>408283-</b> (	03	Prepared: 0	9/03/24 A	Analyzed: 09/04/24
Chloride	1020	20.0	250	768	101	80-120			
Matrix Spike Dup (2436018-MSD1)				Source: I	E <b>408283-</b> (	03	Prepared: 0	9/03/24 A	Analyzed: 09/04/24
Chloride	1020	20.0	250	768	102	80-120	0.0865	20	

QC Summary Report Comment:

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



	2 • • • • • • • • • • •	S <b>W11 G</b> 1 ( <b>S V S</b> S	
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/09/24 11:59

ND A	Analyte NOT DETECTED at or abo	ove the reporting limit
------	--------------------------------	-------------------------

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



#### **Chain of Custody**

Client Information	Invoice Information	1			Lat	b Us	e On	ly		-		ТАТ		St	ate
t: Matador Production Company	Company: Ensolum LLC		Lab	WO#			Job	Numb	er		1D 20	3D Sto	INN I	N CO L	T TX
ect: Ray State Slot 4	Address: 3122 National Parks Hwy		E	1082	83		230	03-	660	20		x	x		
ct Manager: Ashley Giovengo	City, State, Zip: Carlsbad NM, 8822	0	_												
ess: 3122 National Parks Hwy	Phone: 575-988-0055		_				Ana	lysis a	and M	Meth	od		1	EPA Pro	gram
State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com												SDWA	CWA	R
e: 575-988-0055	Miscellaneous:														
agiovengo@ensolum.com		_		8015	8015								Complia		Y or
				by 80	y 80	21	0	0.0	5	×	tals		PWSID	#	
Sample I	nformation			2	ROF	y 80.	/ 826	le 30	N-U	- 500	3 Me			-	
e Date Sampled Matrix No. of Containers	Sample ID	Field Filter Z	Lab lumber	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals		-	Rema	ks
1 \$/29/24 Soil 1 PH07-	6'		1						χ						
8/29/24 Soil 1 PH07-	10'		2						X						
5 8/29/24 Soil 1 PHOZ-	12'		3						X						
6 8/24/24 Soil 1 PH07-	14'		4						X						
19 8/24/24 Soil 1 PHO7.	- llé		5						X						
33 8/29/24 Soil 1 PH08	~ 0 <sup>4</sup>		6						X						
36 8/29/24 Soil 1 PHO8	- Z'		7						χ						
53 8/29/24 Soil 1 PHO8-	44		8						X						
0 8/24/24 Soil 1 PHO8-			9						X						
5 8/29/24 50:1 1 PHO8-	Ч,		10						X						
ional Instructions: Please CC: cburton@ensol	um.com, agiovengo@ensolum.com, iest	rella@e	ensolu	m.cor	n, bd	eal@	Dens	olum	.com	, cha	miltor	n@ensolu	m.com,		
nons@ensolum.com						_		_							
mpler), attest to the validity and authenticity of this sample. I a by:Brandon Deal		the samp	le locatio	on, date	or time	of co	lection	n is con:	sidered	d fraud	and may	be grounds fo	or legal action	on.	
hished by: (Signature) Date Time	Received by (Signature)	Per 3	2.20	Time	14	16	)			d or rec	eived pack	al preservation r ed in ice at an a	avg temp abov		
relished by: (Signature) Date Time	FOO Received by: (Signature)	Date 8.3	0.24	Time	300	, (			Recei	ived	on ice	0	Jse Only N		
uished by: (Signature) Date Time . X. 8.36.24 2	400 Received by: (Signature)	Date 9.3		Time	SOE	>			T1			<u>T2</u>		<u>T3</u>	
ished by: (Signature) Date Time	Received by: (Signature)	Date		Time					AVG	Tem	p°C_	4			
Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								olastic	, ag -	amb	er glass	, v - VOA			
Samples are discarded 14 days after results are reported u es is applicable only to those samples received by the labo										client	expens	e. The repor	rt for the a	nalysis of	he abov

#### **Chain of Custody**

roject: F roject Ma ddress: 3 ity, State, hone: 57 mail: agio	Ray State S nager: As 3122 Natio	<u>lot 4</u> hley Giov	ompany		Company: Encolum IIC												
roject Ma ddress: 3 ity, State, hone: 57 mail: agic	nager: As 122 Natio Zip: Carls 5-988-005	hley Giov					Company: Ensolum LLC Lab WO# Job Number						1	1D 2D 3D Std NM CO UT TX			
ddress: 3 ity, State, hone: 57 mail: agio	3122 Natio Zip: Carls 5-988-005	and the second second second				3122 National Parks Hwy E408283 23003-0002						x	X				
ity, State, hone: 57 mail: agio	Zip: Carls 5-988-005	nal Parks	engo		City, State, Zip: Carlsbad NM	, 88220	_	-									
hone: 57 mail: agic	5-988-005	2 National Parks Hwy Phone: 575-988-0055   : Carlsbad NM, 88220 Email: agiovengo@ensolum.					_				Ana	lysis	and N	letho	d		EPA Program
mail: agic			88220		Email: agiovengo@ensolur	n.com	_									S	DWA CWA RCRA
Time	ovengo@e				Miscellaneous:												
I D		nsolum.c	om					1015	015								ompliance Y or M WSID #
I D				Sample Inf	ormation			by 8	by 8	021	260	300.0	M	× ·	etais		W310 #
ID			No. of	Sample in			Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	KLKA & Metais		Remarks
	ate Sampled	Matrix	Containers		Sample ID	Field	Numb	er Oud	GRO,	BTEX	VOC	Chlo	BGD	TCEQ	N N N		
1000 11	1. 1.	Carl	1	DHOU .	10'		11										
1430 8	6/29/24	2011	-	rius -	-10		11		-	-		_					
1437 4	129/24	5011	1	OKO4.	17		12										Page
	101124	2011	l	PH08 - PH08 - SS03 -	16		12		-	-		-	-				
0927 8	56/14	50:1	Í	4503 -	0'		13										
	101101			55 5					1								
										_						1.1	
							-	-	-	-			-	-			
		-					-	-	-	-				-			
i.																	
-														-			
								-	1.1		-		1				
			ase CC: cb	urton@ensolu	m.com, agiovengo@ensolum.com	n, iestrella@	Penso	um.co	m, b	deal	@ens	olum	.com,	chai	nilton@en	solum.c	om,
	@ensolun			fable constraints the second	aware that tampering with or intentionally mi	labeling the con	anla laca	tion date	ortin	an of c	lection	n is cor	ridarad	froud	nd may be gro	unds for les	ralaction
	Brandon Deal	Cherry and	authenticity	or this sample. I am	aware that tampering with or intentionally mi	slabeling the san	ipie ioca	tion, date	e or un	ne or co	Jilection	I IS COI	isidered	ITauu	inu may be gro	unus ioi ieg	saraction.
elinguished	by: (Signatu		Date,	Time	Received by: (Signature)	Date		Time	11	11		-					be received on ice the day they are
Ann			81:	30/24 7:	30 ( Hank	8<	20.2	4 Time	114	10	2		sampled		ved packed in ice	at an avg ter	mp above 0 but less than 6 °C on
	by: Signatu	re)	Date	an of Time	Received by: (Signature)	Date	2 1	Time	0	q						Lab Use	Only
('	Pr	1	8	502415	CO . A. M.		50.1		800	0	_		Recei	ved o	on ice: 🤇	Y/N	
elinguished	by: (Signatu	re)	Date	7 7 Time	Received by: (Signature)	Date		Time									
A.M				30.24 20	600 highp RHER		3.24		50				<u>T1</u>	_	12		<u></u>
elinquished	by: (Signatu	re)	Date	lime	Received by: (Signature)	Date		Time	8				AVG 1	Comr	or 4		
ample Matrix:	: S - Soil. Sd - S	olid. Sg - Slu	dge. A - Aqueo	ous, O - Other		Cont	ainer T	ype: g	- glas	s, p -	poly/p	olasti	c, ag - a	mho	ralace V-V	OA	
					ess other arrangements are made. Hazar									client	expense. The	report for	irote
					tory with this COC. The liability of the lab												

#### **Envirotech Analytical Laboratory**

Client:	Matador Resources, LLC. Da	ate Received:	09/03/24	05:00			Work Order ID:	E408283
Phone:	(972) 371-5200 Da	te Logged In:	08/30/24	16:03			Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	ie Date:	09/09/24	17:00 (4 da	y TAT)			
Chain o	f Custody (COC)							
1. Does	the sample ID match the COC?		Yes					
2. Does	the number of samples per sampling site location match	the COC	Yes					
3. Were	samples dropped off by client or carrier?		Yes	Ca	arrier: <u>C</u>	ourier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes					
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes				Commer	ts/Resolution
Sample	Turn Around Time (TAT)				Г			
	ne COC indicate standard TAT, or Expedited TAT?		Yes					
Sample	Cooler_							
	sample cooler received?		Yes					
8. If yes,	, was cooler received in good condition?		Yes					
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes					
10. Were	e custody/security seals present?		No					
11. If ye	s, were custody/security seals intact?		NA					
	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling o visible ice, record the temperature. Actual sample ter	ceived w/i 15	Yes <u>C</u>					
Sample	Container							
14. Are a	aqueous VOC samples present?		No					
15. Are '	VOC samples collected in VOA Vials?		NA					
16. Is the	e 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	e appropriate volume/weight or number of sample containers	collected?	Yes					
Field La								
	e field sample labels filled out with the minimum inform	ation:	17					
	Sample ID? Date/Time Collected?		Yes					
	Collectors name?		Yes Yes					
	Preservation		103					
	s the COC or field labels indicate the samples were press	rved?	No					
	sample(s) correctly preserved?		NA					
	b filteration required and/or requested for dissolved meta	ls?	No					
<u>Multiph</u>	ase Sample Matrix							
	s the sample have more than one phase, i.e., multiphase?		No					
	s, does the COC specify which phase(s) is to be analyzed	1?	NA					
•	tract Laboratory_							
	samples required to get sent to a subcontract laboratory?		No					
	a subcontract laboratory specified by the client and if so	who?	NA	Subcontr	act Lab	NA		
				~				

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







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:

Ray State Slot 4

Work Order: E409005

Job Number: 23003-0002

Received: 9/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/10/24

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: 9/10/24

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

Project Name: Ray State Slot 4 Workorder: E409005 Date Received: 9/4/2024 6:00:00AM

Ashley Giovengo,



Page 263 of 432

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/4/2024 6:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

#### Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH09 0'	5
PH09 2'	6
PH09 4'	7
PH09 6'	8
PH09 8'	9
PH09 10'	10
PH09 12'	11
PH09 14'	12
PH09 16'	13
QC Summary Data	14
QC - Volatile Organics by EPA 8021B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

#### Sample Summary

		Sampic Sum	mai y		
Matador Resources, LLC.		Project Name:	Ray State Slot 4		Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23003-0002		in porteu.
Dallas TX, 75240		Project Manager:	Ashley Giovengo		09/10/24 12:27
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH09 0'	E409005-01A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 2'	E409005-02A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 4'	E409005-03A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 6'	E409005-04A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 8'	E409005-05A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 10'	E409005-06A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 12'	E409005-07A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 14'	E409005-08A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
PH09 16'	E409005-09A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.



	~	ampic D				
Matador Resources, LLC.	Project Name	: Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	03-0002			Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			9/10/2024 12:27:13PM
		PH09 0'				
		E409005-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: CG		Batch: 2436031
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Foluene	ND	0.0250	1	09/04/24	09/06/24	
p-Xylene	ND	0.0250	1	09/04/24	09/06/24	
o,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2436031
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2436053
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24	
Surrogate: n-Nonane		86.4 %	50-200	09/05/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2436030
Chloride	2240	40.0	2	09/04/24	09/04/24	

#### Sample Data



#### Sample Data

	50	ampic D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/10/2024 12:27:13PM
		PH09 2'				
		E409005-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG	Batch: 2436031	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	1 09/04/24		
p-Xylene	ND	0.0250	1	1 09/04/24		
o,m-Xylene	ND	0.0500	1	1 09/04/24		
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
urrogate: 4-Bromochlorobenzene-PID		98.0 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2436031
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2436053
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24	
Surrogate: n-Nonane		74.5 %	50-200	09/05/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2436030
Chloride	1770	20.0	1	09/04/24	09/04/24	



#### Sample Data

	56	ampic D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/10/2024 12:27:13PM	
		PH09 4'					
	-	E409005-03					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: CG			
Benzene	ND	0.0250	1	09/04/24	09/06/24		
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24		
Toluene	ND	0.0250	1	1 09/04/24			
o-Xylene	ND	0.0250	1	1 09/04/24			
o,m-Xylene	ND	0.0500	1	1 09/04/24			
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24		
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	09/04/24	09/06/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2436031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	09/04/24	09/06/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2436053	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24		
Dil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24		
Surrogate: n-Nonane		75.3 %	50-200	09/05/24	09/09/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2436030	
Chloride	1860	20.0	1	09/04/24	09/04/24		



#### Sample Data

		ampic D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/10/2024 12:27:13PM
		PH09 6'				
		E409005-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2436031		
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	0 1 09/04/24		09/06/24	
p-Xylene	ND	0.0250	1 09/04/24		09/06/24	
o,m-Xylene	ND	0.0500	1 09/04/24		09/06/24	
Fotal Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: CG		Batch: 2436031
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: NV		Batch: 2436053
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24	
Surrogate: n-Nonane		72.8 %	50-200	09/05/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: IY		Batch: 2436030
Chloride	2060	40.0	2	09/04/24	09/05/24	



#### Sample Data

	5		aia				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/10/2024 12:27:13PM	
		PH09 8'					
		E409005-05					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: CG			
Benzene	ND	0.0250	1	09/04/24	09/06/24		
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24		
Toluene	ND	0.0250	1 09/04/24		09/06/24		
p-Xylene	ND	0.0250	1 09/04/24		09/06/24		
o,m-Xylene	ND	0.0500	1 09/04/24		09/06/24		
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24		
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	09/04/24	09/06/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2436031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	09/04/24	09/06/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2436053	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24		
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24		
Surrogate: n-Nonane		75.0 %	50-200	09/05/24	09/09/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: IY		Batch: 2436030	
Chloride	2120	40.0	2	09/04/24	09/05/24		



#### Sample Data

	50	ampic D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/10/2024 12:27:13PM	
		PH09 10'					
		E409005-06					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: CG			
Benzene	ND	0.0250	1	09/04/24	09/06/24		
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24		
Foluene	ND	0.0250	1	1 09/04/24			
p-Xylene	ND	0.0250	1	1 09/04/24			
o,m-Xylene	ND	0.0500	1	1 09/04/24			
Fotal Xylenes	ND	0.0250	1	09/04/24	09/06/24		
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	09/04/24	09/06/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: CG		Batch: 2436031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	09/04/24	09/06/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2436053	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24		
Dil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24		
Surrogate: n-Nonane		74.0 %	50-200	09/05/24	09/09/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2436030	
Chloride	1280	20.0	1	09/04/24	09/05/24		



#### Sample Data

	50	ampic D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo		<b>Reported:</b> 9/10/2024 12:27:13PM	
		PH09 12'				
		E409005-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analy	st: CG	Batch: 2436031	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
thylbenzene	ND	0.0250	1	09/04/24	09/06/24	
oluene	ND	0.0250	1	1 09/04/24		
-Xylene	ND	0.0250	1	1 09/04/24		
,m-Xylene	ND	0.0500	1	1 09/04/24		
fotal Xylenes	ND	0.0250	1	09/04/24	09/06/24	
urrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2436031
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2436053
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24	
urrogate: n-Nonane		78.8 %	50-200	09/05/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2436030
Chloride	414	20.0	1	09/04/24	09/05/24	



#### Sample Data

	56	ampic D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/10/2024 12:27:13PM
		PH09 14'				
	]	E409005-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: BA	Batch: 2436031	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
thylbenzene	ND	0.0250	1	09/04/24	09/06/24	
oluene	ND	0.0250	1	1 09/04/24		
-Xylene	ND	0.0250	1	1 09/04/24		
o,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
urrogate: 4-Bromochlorobenzene-PID		98.0 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2436031
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: NV		Batch: 2436053
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24	
Dil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/09/24	
'urrogate: n-Nonane		74.4 %	50-200	09/05/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2436030
Chloride	923	20.0	1	09/04/24	09/05/24	



#### Sample Data

	50	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 9/10/2024 12:27:13PM
		PH09 16'				
		E409005-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2436031
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	50 1 09/04/24		09/06/24	
p-Xylene	ND	0.0250	1 09/04/24		09/06/24	
o,m-Xylene	ND	0.0500	1 09/04/24		09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2436031
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2436053
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/09/24	
Dil Range Organics (C28-C36)						
Surrogate: n-Nonane		71.6 %	50-200	09/05/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2436030
Chloride	790	20.0	1	09/04/24	09/05/24	



#### QC Summary Data

				-					
Matador Resources, LLC.		Project Name:	Ra	ay State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	003-0002					•
Dallas TX, 75240		Project Manager:	As	shley Gioveng	<u>j</u> 0				9/10/2024 12:27:13PM
		Volatile Or	ganics b	oy EPA 802	1B				Analyst: CG
Analyte		Reporting	Spike	Source		Rec		RPD	
7 maryte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2436031-BLK1)							Prepared: 0	9/04/24	Analyzed: 09/06/24
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	7.68		8.00		96.0	70-130			
LCS (2436031-BS1)							Prepared: 0	9/04/24	Analyzed: 09/06/24
Benzene	5.17	0.0250	5.00		103	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
p-Xylene	4.95	0.0250	5.00		99.1	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			
Matrix Spike (2436031-MS1)				Source:	E409005-	04	Prepared: 0	9/04/24	Analyzed: 09/06/24
Benzene	5.14	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
p-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			
Matrix Spike Dup (2436031-MSD1)				Source:	E409005-	04	Prepared: 0	9/04/24	Analyzed: 09/06/24
Benzene	5.16	0.0250	5.00	ND	103	54-133	0.398	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133	0.715	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	0.424	20	
p-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	0.758	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.660	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	0.692	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



#### **QC Summary Data**

		QC D	umm	aly Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 3003-0002 Ashley Giovengo	)				<b>Reported:</b> 9/10/2024 12:27:13PM
	Noi	nhalogenated C	Organics	by EPA 801	5D - Gl	RO			Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	0.0		0.0	0.0					
Blank (2436031-BLK1)							Prepared: 0	9/04/24 A	analyzed: 09/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			
LCS (2436031-BS2)							Prepared: 0	9/04/24 A	nalyzed: 09/06/24
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			
Matrix Spike (2436031-MS2)				Source: E	409005-0	04	Prepared: 0	9/04/24 A	analyzed: 09/06/24
Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			
Matrix Spike Dup (2436031-MSD2)				Source: E	409005-0	04	Prepared: 0	9/04/24 A	analyzed: 09/06/24
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.9	70-130	2.06	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID									



#### **QC Summary Data**

		QC D		ialy Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 9/10/2024 12:27:13PM
	Nonh	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2436053-BLK1)							Prepared: 0	9/05/24 A	Analyzed: 09/08/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			
LCS (2436053-BS1)							Prepared: 0	9/05/24 A	Analyzed: 09/08/24
Diesel Range Organics (C10-C28)	195	25.0	250		78.1	38-132			
Surrogate: n-Nonane	43.4		50.0		86.9	50-200			
Matrix Spike (2436053-MS1)				Source: E	409005-	01	Prepared: 0	9/05/24 A	Analyzed: 09/08/24
Diesel Range Organics (C10-C28)	197	25.0	250	ND	78.7	38-132			
Surrogate: n-Nonane	41.9		50.0		83.7	50-200			
Matrix Spike Dup (2436053-MSD1)				Source: E	409005-	01	Prepared: 0	9/05/24 A	Analyzed: 09/09/24
Diesel Range Organics (C10-C28)	188	25.0	250	ND	75.3	38-132	4.42	20	
Surrogate: n-Nonane	41.4		50.0		82.8	50-200			



#### **QC Summary Data**

		$\mathbf{x} \in \mathbf{v}$	••••••	, <u> </u>	•				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					<b>Reported:</b>
Dallas TX, 75240		Project Manager	: 1	Ashley Gioveng	0				9/10/2024 12:27:13F
		Anions	by EPA	300.0/9056A	L				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 (2436030-BLK1)							Prepared: 0	9/04/24	Analyzed: 09/04/24
Chloride	ND	20.0							
LCS (2436030-BS1)							Prepared: 0	9/04/24	Analyzed: 09/04/24
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2436030-MS1)				Source:	E408286-2	22	Prepared: 0	9/04/24	Analyzed: 09/04/24
Chloride	358	20.0	250	102	102	80-120			
Matrix Spike Dup (2436030-MSD1)				Source:	E408286-2	22	Prepared: 0	9/04/24	Analyzed: 09/04/24
Chloride	333	20.0	250	102	92.4	80-120	7.22	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.



	_ • • - • - •		
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/10/24 12:27

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: 4/21/2025 3:13:23 PM

	Client Information Invoice Information			Invoice Information					Lab Use Only TAT					TAT	State										
Client: N	latador Proc	oduction Company			Co			Lat	wO#	ŧ	-	Job N	lum	ber		1D 2D 3D Std NM CO UT TX			X						
	Ray State S				Ad	dress: 3122 National Parks	Hwy	E <sup>4</sup>	109	00				- 00			X	X	_						
1911 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Aanager: As					y, State, Zip: Carlsbad NM, 8	88220		_				1			and the									
the second second second	3122 Natio					one: 575-988-0055	-		-		-	Anal	ysis	and N	<b>Neth</b>	od			Program						
	e, Zip: Carls 575-988-005		88220			nail: agiovengo@ensolum.	com	-															SDWA	CWA	RCRA
And the second se	giovengo@e		om			cellaneous:				10							c	ompliance	Y	or N					
cinan. a	Slovenboele	nisorann.e	om				1		8015	8015	5		0		~	<u>s</u>		WSID #	1.1.						
				Sample	Informati	on			KO by	ko by	8021	8260	300	WN -	(1 - SC	Meta									
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numbe	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals		R	emarks						
1:28	8/30/24	Soil	1	PHO	1 0'			1						X											
9:35	8/30/24	Soi(	1	PHO	-			2						X											
9:46	8/20/24	Soi(	1	PHO	94			3						X											
10:54	8/30/24	Soi(	1	PHO	9 6'			4						X											
11:05	8\$30/24	Soil	)	PHO	98			5						X											
12:14	8/30/24	Soil	1	PHO	9 10	) ′		6						X											
12:23	8/30/24	Soil	1	PHO	9 12	<u>&gt;</u> (	1	7						X					-						
13:47	8/30/24	Soil	1	PHO	9 14	_ /		8						X											
14:03	8/30/24	Soil	1	PHO	7 16	1		9						X											
			ase CC: cl	burton@ens	olum.com	agiovengo@ensolum.com,	chamilto	n@ensc	olum.c	com, i	iestr	ella@	ense	olum.	com	bdeal@ens	solum.	com,							
	ns@ensolum		authenticity	of this sample	am aware tha	t tampering with or intentionally misla	beling the sa	mple locatio	on date	or time	of col	lection	is con	sidered	fraud	and may be grou	inds for le	gal action.							
Sampled by	N	net	Okon	o-Soto	h											, .									
Relinquish	ed by: (Signatu		Date 8/	30/24 Tin	16:20	Received by: (Signature) Michelle Gonza	les g.	3-24	Time	92	1			100 Sec. 6 100	or rece	ng thermal preserv ived packed in ice s									
	ed by: (Signatu		es G	3.24 Tin	530	Received by: (Signature)	Date 9.	3.24	Time		0					L	ab Use	Only							
Relinduist	ed by: (Signatu	Re Co	Date		2130	Received by: (Signature)	Date	4.24	Time	60	0		0	T1		<u>T2</u>		I	3						
Relinquish	ed by: (Signatu	re)	Date			Received by: (Signature)	Date		Time					AVG	Tem	°c 4									
Sample Ma	rix: <b>S</b> - Soil, <b>Sd</b> - S ples are discarc	olid, Sg - Slue	dge, A - Aqui	eous, O - Other _			Con	tainer Ty	pe:g-	glass,	p - p	oly/p	lastic	c, ag -	ambe	er glass, v - Vo	DA								

C



#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC.	Date Received:	09/04/24	06:00	Work Order ID:	E409005
Phone:	(972) 371-5200	Date Logged In:	09/03/24	17:42	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/10/24	17:00 (4 day TAT)		
Chain of	<u>Custody (COC)</u>					
1. Does tl	he sample ID match the COC?		Yes			
2. Does the	he number of samples per sampling site location mate	h the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes			
5. Were a	Ill 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 disucssion		Yes		Commen	ts/Resolution
Sample 7	<u>Furn Around Time (TAT)</u>					
-	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (	<u>-</u> Cooler_					
	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			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample t	emperature: 4°	С			
	<u>Container</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			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field La						
	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
	Date/Time Collected?		Yes			
-	Collectors name?		Yes			
	Preservation	10	<b>N</b> <sup>2</sup>			
	the COC or field labels indicate the samples were pre	eserved?	No			
	ample(s) correctly preserved?	rtala?	NA Na			
	filteration required and/or requested for dissolved me	51a1S (	No			
	ase Sample Matrix	0				
	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 analyz	zed?	NA			
	ract Laboratory					
Subconti	Tuet Elaboratory					
	amples required to get sent to a subcontract laboratory	/?	No			

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



envirotech Inc.

•





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:

Ray State Slot 4

Work Order: E502271

Job Number: 23003-0002

Received: 2/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/5/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 3/5/25

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

Project Name: Ray State Slot 4 Workorder: E502271 Date Received: 2/27/2025 4:30:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/27/2025 4:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

#### Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS02-2'	5
FS03-2'	6
FS04-2'	7
FS07-1'	8
FS37-1'	9
FS38-1'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

#### **Sample Summary**

#### Page 285 of 432

		Sample Sum	mai y		
Matador Resources, LLC.		Project Name:	Ray State Slot 4		Reported:
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Number: Project Manager:	23003-0002 Ashley Giovengo		03/05/25 08:31
Dallas IA, 75240		Floject Manager.	Ashiey Glovengo		03/03/23 08.31
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-2'	E502271-01A	Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
'S03-2'	E502271-02A	Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
'S04-2'	E502271-03A	Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
'S07-1'	E502271-04A	Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
'S37-1'	E502271-05A	Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
'S38-1'	E502271-06A	Soil	02/25/25	02/27/25	Glass Jar, 2 oz.



		umpic D						
Matador Resources, LLC.	Project Name	: Ray	State Slot 4					
5400 LBJ Freeway, Suite 1500	Project Numb	per: 2300	03-0002		Reported:			
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			3/5/2025 8:31:45AM		
		FS02-2'						
		E502271-01						
		Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2509100		
Benzene	ND	0.0250	1	02/27/25	03/01/25			
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25			
Toluene	ND	0.0250	1	02/27/25	03/01/25			
o-Xylene	ND	0.0250	1	02/27/25	03/01/25			
o,m-Xylene	ND	0.0500	1	02/27/25	03/01/25			
Total Xylenes	ND	0.0250	1	02/27/25	03/01/25			
urrogate: 4-Bromochlorobenzene-PID		83.5 %	70-130	02/27/25	03/01/25			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2509100		
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25			
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	02/27/25	03/01/25			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KH		Batch: 2509096		
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25			
Dil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25			
Surrogate: n-Nonane		90.2 %	61-141	02/27/25	02/27/25			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2509103		
Chloride	4450	40.0	2	02/27/25	02/27/25			

#### Sample Data



#### Sample Data

	Si	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo	,		<b>Reported:</b> 3/5/2025 8:31:45AM
		FS03-2'				
		E502271-02				
		Reporting				
Analyte	Result	Limit	Dilutic	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2509100
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Foluene	ND	0.0250	1	02/27/25	03/01/25	
p-Xylene	ND	0.0250	1	02/27/25	03/01/25	
o,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Fotal Xylenes	ND	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		84.6 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2509100
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		84.7 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2509103
Chloride	1860	40.0	2	02/27/25	02/27/25	



#### Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/5/2025 8:31:45AM
		FS04-2'				
		E502271-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2509100
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	ND	0.0250	1	02/27/25	03/01/25	
-Xylene	ND	0.0250	1	02/27/25	03/01/25	
o,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Total Xylenes	ND	0.0250	1	02/27/25	03/01/25	
urrogate: 4-Bromochlorobenzene-PID		81.5 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2509100
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		88.4 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2509103
Chloride	2040	40.0	2	02/27/25	02/27/25	


# Sample Data

	5	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/5/2025 8:31:45AM
		FS07-1'				
		E502271-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2509100
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	ND	0.0250	1	02/27/25	03/01/25	
p-Xylene	ND	0.0250	1	02/27/25	03/01/25	
o,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Fotal Xylenes	ND	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		85.6 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2509100
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		87.1 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2509103
Chloride	2070	40.0	2	02/27/25	02/27/25	



# Sample Data

		ampie D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/5/2025 8:31:45AM
		FS37-1'				
		E502271-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2509100
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	ND	0.0250	1	02/27/25	03/01/25	
p-Xylene	ND	0.0250	1	02/27/25	03/01/25	
o,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Total Xylenes	ND	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		87.1 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2509100
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		86.7 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2509103
Chloride	1660	20.0	1	02/27/25	02/27/25	



# Sample Data

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 2300	State Slot 4 )3-0002 ley Gioveng				<b>Reported:</b> 3/5/2025 8:31:45AM
		FS38-1'					
		E502271-06					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	I	Analyst: B	A		Batch: 2509100
Benzene	ND	0.0250	1		02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1		02/27/25	03/01/25	
Toluene	ND	0.0250	1		02/27/25	03/01/25	
p-Xylene	ND	0.0250	1		02/27/25	03/01/25	
o,m-Xylene	ND	0.0500	1		02/27/25	03/01/25	
Fotal Xylenes	ND	0.0250	1		02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		88.0 %	70-130		02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: B	A		Batch: 2509100
Gasoline Range Organics (C6-C10)	ND	20.0	1		02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130		02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: K	Н		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1		02/27/25	02/27/25	
Dil Range Organics (C28-C36)	ND	50.0	1		02/27/25	02/27/25	
Surrogate: n-Nonane		87.6 %	61-141		02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: D	Т		Batch: 2509103
Chloride	1280	20.0	1		02/27/25	02/27/25	



# QC Summary Data

		<b>X</b> U N		v					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 3003-0002 shley Gioveng					<b>Reported:</b> 3/5/2025 8:31:45AM
		Volatile O	rganics b	oy EPA 802	1B				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 (2509100-BLK1)							Prepared: 0	2/27/25 A	nalyzed: 03/01/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.71	0.0250	8.00		83.8	70-130			
LCS (2509100-BS1)							Prepared: 0	2/27/25 A	nalyzed: 03/01/25
Benzene	4.87	0.0250	5.00		97.3	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.83	0.0250	5.00		96.7	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.3	0.0250	15.0		95.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.60	0.0250	8.00		82.5	70-130			
Matrix Spike (2509100-MS1)				Source:	E502271-(	03	Prepared: 0	2/27/25 A	nalyzed: 03/01/25
Benzene	5.02	0.0250	5.00	ND	100	54-133	1		,
Ethylbenzene	4.87	0.0250	5.00	ND	97.4	61-133			
Toluene	4.97	0.0250	5.00	ND	99.5	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.87	0.0230	10.0	ND	90.0 98.7	63-131			
p,m-Xylene Total Xylenes	14.7	0.0300	15.0	ND	97.8	63-131			
			15.0	112	21.0	05 151			
Surrogate: 4-Bromochlorobenzene-PID	6.50	01023.0	8.00		81.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID			8.00	Source:			Prepared: 0	2/27/25 A	nalvzed: 03/01/25
Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2509100-MSD1)	6.50				E502271-	03			nalyzed: 03/01/25
Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2509100-MSD1) Benzene	<i>6.50</i> 5.14	0.0250	5.00	ND	<b>E502271-</b>	<b>03</b> 54-133	2.29	20	nalyzed: 03/01/25
Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2509100-MSD1) Benzene Ethylbenzene	6.50 5.14 4.98	0.0250 0.0250	5.00 5.00	ND ND	<b>E502271-</b> 103 99.6	<b>03</b> 54-133 61-133	2.29 2.23	20 20	nalyzed: 03/01/25
Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2509100-MSD1) Benzene Ethylbenzene Toluene	6.50 5.14 4.98 5.08	0.0250 0.0250 0.0250	5.00 5.00 5.00	ND ND ND	<b>E502271-</b> 103 99.6 102	<b>03</b> 54-133 61-133 61-130	2.29 2.23 2.17	20 20 20	nalyzed: 03/01/25
Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2509100-MSD1) Benzene Ethylbenzene Toluene o-Xylene	6.50 5.14 4.98 5.08 4.90	0.0250 0.0250 0.0250 0.0250	5.00 5.00 5.00 5.00	ND ND ND ND	E502271-( 103 99.6 102 98.0	<b>03</b> 54-133 61-133 61-130 63-131	2.29 2.23 2.17 2.15	20 20 20 20	nalyzed: 03/01/25
Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2509100-MSD1) Benzene Ethylbenzene Toluene	6.50 5.14 4.98 5.08	0.0250 0.0250 0.0250	5.00 5.00 5.00	ND ND ND	<b>E502271-</b> 103 99.6 102	<b>03</b> 54-133 61-133 61-130	2.29 2.23 2.17	20 20 20	nalyzed: 03/01/25



# **QC Summary Data**

		QC D	u	ary Data	L				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	ay State Slot 4 3003-0002 shley Giovengo	o				<b>Reported:</b> 3/5/2025 8:31:45AM
	Nor	nhalogenated (	Organics	by EPA 801	5D - Gl	RO			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 (2509100-BLK1)							Prepared: 0	2/27/25 A	nalyzed: 03/01/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
LCS (2509100-BS2)							Prepared: 0	2/27/25 A	nalyzed: 03/01/25
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			
Matrix Spike (2509100-MS2)				Source: I	E <b>502271</b> -	03	Prepared: 0	2/27/25 A	nalyzed: 03/01/25
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			
Matrix Spike Dup (2509100-MSD2)				Source: I	E502271-	03	Prepared: 0	2/27/25 A	nalyzed: 03/01/25
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	ND	85.4	70-130	9.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			



# **QC Summary Data**

		$\mathbf{x} \in \mathbf{z}$		ary Date	•				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					Reported:
Dallas TX, 75240		Project Manager:	A	Ashley Gioveng	0				3/5/2025 8:31:45AM
	Nonh	alogenated Org	anics by	7 EPA 8015D	- DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2509096-BLK1)							Prepared: 0	2/27/25 A	analyzed: 02/27/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.6		50.0		85.1	61-141			
LCS (2509096-BS1)							Prepared: 0	2/27/25 A	analyzed: 02/27/25
Diesel Range Organics (C10-C28)	197	25.0	250		78.7	66-144			
Surrogate: n-Nonane	43.3		50.0		86.6	61-141			
Matrix Spike (2509096-MS1)				Source: 1	E502271-	05	Prepared: 0	2/27/25 A	analyzed: 02/27/25
Diesel Range Organics (C10-C28)	215	25.0	250	ND	85.8	56-156			
Surrogate: n-Nonane	46.1		50.0		92.1	61-141			
Matrix Spike Dup (2509096-MSD1)				Source:	E502271-	05	Prepared: 0	2/27/25 A	analyzed: 02/27/25
Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.5	56-156	5.23	20	
Surrogate: n-Nonane	44.0		50.0		88.1	61-141			



# **QC Summary Data**

			-					
	5	-	23003-0002					<b>Reported:</b> 3/5/2025 8:31:45AM
	Anions	by EPA	300.0/9056A					Analyst: DT
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	2/27/25 A	Analyzed: 02/27/25
ND	20.0							
						Prepared: 0	2/27/25 A	Analyzed: 02/27/25
257	20.0	250		103	90-110			
			Source: 1	E502271-0	01	Prepared: 0	2/27/25 A	Analyzed: 02/27/25
4620	40.0	250	4450	66.5	80-120			M4
			Source: 1	E502271-0	01	Prepared: 0	2/27/25 A	Analyzed: 02/27/25
4860	40.0	250	4450	165	80-120	5.18	20	M4
	mg/kg ND 257 4620	Project Number:       Project Manager       Anions       Result     Reporting       Imit     mg/kg       ND     20.0       257     20.0       4620     40.0	Project Number:         Project Number:         Project Manager:       Anions by EPA         Anions       Spike         Limit       Level         mg/kg       mg/kg         ND       20.0         257       20.0       250         4620       40.0       250	Project Number:       23003-0002         Project Manager:       Ashley Gioveng         Anions by EPA 300.0/9056A       Ashley Gioveng         Result       Reporting mg/kg       Spike mg/kg       Source Result         ND       20.0       257         257       20.0       250         4620       40.0       250       4450	Project Number:       23003-0002         Project Manager:       Ashley Giovengo         Anions by EPA 300.0/9056A       Image: Spike Source Result mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg         ND       20.0         257       20.0       250         257       20.0       250         Ations by EPA 300.0/9056A       Image: E502271-4450         4620       40.0       250         4620       40.0       250	Project Number:23003-0002Project Manager:Ashley GiovengoAshley GiovengoAnions by EPA 300.0/9056AResultReporting LimitSpike LevelSource ResultRec Kec LimitsMD20.025010390-11025720.025010390-110Source: E502271-01462040.0250445066.580-120Source: E502271-01	Project Number:23003-0002Project Manager:Ashley GiovengoAnions by EPA 300.0/9056AResultReporting LimitSpike LevelSource ResultRec 	Project Number:       23003-0002         Project Manager:       Ashley Giovengo         Anions by EPA 300.0/9056A       Rec       Rec       Rec       RPD       RPD         Result       Reporting       Spike       Source       Rec       Limits       RPD       RPD         Mg/kg       mg/kg       mg/kg       mg/kg       Source       Rec       Limits       RPD       Limit         ND       20.0       250       103       90-110       Prepared: 02/27/25       Prepared: 02/27/25 </td

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.



_		Demitions		
Γ	Matador Resources, LLC.	Project Name:	Ray State Slot 4	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/05/25 08:31

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.



#### **Chain of Custody**

	Clier	nt Inform	ation			Invoice Informat	ion			Lab Use Only								TAT S									
lient: N	20023				Co	mpany: Ensolum LLC			Lat	Lab WO# Job Number								3D Sto	đ	NM CO UT TX							
	Ray State Slot	4				dress: 3122 National Park	s Hwy		- F	E502271 23003-0002							D 2D	X	-	X							
	Aanager: Ast		engo			ty, State, Zip: Carlsbad NN	all have been and the																				
	3122 Nation					one: 575-988-0055							Anal	ysis	and M	leth	bd		1	EPA Program							
ity, Sta	e, Zip: Carlsl	bad NM,	88220		En	mail: agiovengo@ensolur	n.com												S	DWA CWA RCRA							
hone:	575-988-0055	5			Mis	scellaneous:																					
mail: a	giovengo@ei	nsolum.c	om							15	15								-	mpliance Y or N							
		~ ~ ~ ~ ~ ~								y 80	v 80	17	0	0.0	5	×	als		PV	VSID #							
				Sample In	formation	on				ROb	DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021	RO by	RO b	DRO b	NRO b	GRO/DRO by 8015 BTEX by 8021	N 802	RO b y 802	1 802	, 826	e 30	N-	- 500	Me		1	La una
Time Sampled	Date Sampled	Matrix	No. of Containers						Sample ID 도 문 권 Lab				VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks							
11:38	2/25/2025	S	1		FS02 - 2'				1						x												
8:49	2/25/2025	S	1	FS03 - 2'					2						x												
8:50	2/25/2025	S	1		FS04 - 2'				3						х												
16:08	2/25/2025	S	1		FS07 - 1'				4						x												
12:43	2/25/2025	S	1	FS37 - 1'					5						x												
12:54	2/25/2025	S	1		FS38 - 1'			6						x													
0.07																											
					California da s	1 11 0 1			0	1 and 1																	
Addition	nal Instructio	ns: Ple	ase CC: ag	giovengo@ens	iolum.co	om, chamilton@ensolum.c	com, les	trella	a@ensc	oium.c	com,	DSIM	mons	@er	isolu	m.co	n, jgoi	nzalez@e	enso	ium.com							
, (field sam	pler), attest to the	validity and	dauthenticity	of this sample. I ar	m aware tha	at tampering with or intentionally m	slabeling th	ne sam	ple locatio	on, date	or tim	e of co	llection	is con	sidered	fraud	and may	be grounds f	for leg	al action.							
Sampled by	:Higinio Go	nzalez												_													
	ed by: (Signatur	e	- Date	-26-25 0		Received by: (Signature)		Date	26.25	Time	200	>								e received on ice the day they are np above 0 but less than 6 °C on							
Mu	hed by stenatur	onzal	leg J.	26:25 15	520	Received by: Signature		Date	26-25	Time	520				Rece	ived o	Lab Us ed on ice: (Y)/ N			Only							
Plinguist	ed by: (Signatur	quale	Date 7-	26-25 ZI.	30	Received by: (Signature)	000	Date 2-2	7-24	Time	4.30	5			т1	T2				ТЗ							
Relinquis	ned by: (Signatur	- 10	Date			Received by: (Signature)	~	Date	105	Time	_				AVG	Temr	°C	y									
Sample Ma	trix: S - Soil, Sd - S	olid. Sg - Slu	dge, A - Aque	eous, <b>O</b> - Other				Cont	ainer Ty	pe:g-	glass	, p - I	oly/p					v - VOA									
Note: San	ples are discard	ed 14 day	s after resul	Its are reported ur		r arrangements are made. Haza	dous sam	ples v	will be re	turned	to clie	ent or	dispos	ed of	at the				rt for	the analysis of the above							
						h this COC. The liability of the lab																					

#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

	Matador Resources, LLC. Da	te Received:	02/27/25	04:30	Work Ord	ler ID:	E502271
Phone:	(972) 371-5200 Da	te Logged In:	02/26/25	14:52	Logged Ir	n By:	Caitlin Mars
Email:	agiovengo@ensolum.com Du	e Date:	03/05/25	17:00 (4 day TAT)			
<u>Chain o</u>	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Couri	<u>er</u>		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		<u>Co</u>	mmen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>						
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes				
<u>Sample</u>	Cooler						
	sample cooler received?		Yes				
8. If yes	, was cooler received in good condition?		Yes				
9. Was t	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample tem	nperature: <u>4°(</u>	<u>c</u>				
Sample	Container						
14. Are	aqueous VOC samples present?		No				
15. Are	VOC samples collected in VOA Vials?		NA				
16. Is th	e head space less than 6-8 mm (pea sized or less)?		NA				
17. Was	a trip blank (TB) included for VOC analyses?		NA				
18. Are	non-VOC samples collected in the correct containers?		Yes				
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes				
Field La	abel						
20. Were	e field sample labels filled out with the minimum information	ation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes				
1	Collectors name?						
]	Collectors name? Preservation		Yes				
Sample	Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese	rved?	No				
Sample 21. Does	Preservation	rved?					
5 21. Does 22. Are	<u>Preservation</u> s the COC or field labels indicate the samples were prese		No				
Sample 21. Does 22. Are 24. Is lat	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved?		No NA				
Sample 21. Does 22. Are 24. Is lat Multiph	<b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta		No NA				
Sample           21. Does           22. Are           24. Is lat           Multiph           26. Does	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta pase Sample Matrix	ls?	No NA No				
Sample           21. Does           22. Are           24. Is lat           Multiph           26. Does           27. If yet	<b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>mase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	ls?	No NA No No				
Sample           21. Doe:           22. Are           24. Is lat           Multiph           26. Doe:           27. If ye           Subcont	<b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>base Sample Matrix</u> s the sample have more than one phase, i.e., multiphase?	ls?	No NA No No				

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



•





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:

Ray State Slot 4

Work Order: E502283

Job Number: 23003-0002

Received: 2/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/6/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 3/6/25

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

Project Name: Ray State Slot 4 Workorder: E502283 Date Received: 2/28/2025 4:30:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2025 4:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Dege	4
Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS01-2.5'	6
FS05-1.5'	7
FS06-1.5'	8
FS08-1'	9
FS09-1.5'	10
FS10-1.5'	11
FS11-1.5'	12
FS12-1'	13
FS13-1'	14
FS14-1'	15
FS20-1'	16
FS21-1'	17
FS25-1'	18
FS26-1'	19
QC Summary Data	20
QC - Volatile Organics by EPA 8021B	20
QC - Nonhalogenated Organics by EPA 8015D - GRO	21
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	22
QC - Anions by EPA 300.0/9056A	23
Definitions and Notes	24

# Table of Contents (continued)

Chain of Custody etc.

25

#### **Sample Summary**

		Sample Sum	mary		
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	00 LBJ Freeway, Suite 1500 Project		Ray State Slot 4 23003-0002 Ashley Giovengo		<b>Reported:</b> 03/06/25 13:07
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-2.5'	E502283-01A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
FS05-1.5'	E502283-02A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
'S06-1.5'	E502283-03A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
'S08-1'	E502283-04A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
S09-1.5'	E502283-05A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
S10-1.5'	E502283-06A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
S11-1.5'	E502283-07A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
812-1'	E502283-08A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
813-1'	E502283-09A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
S14-1'	E502283-10A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
S20-1'	E502283-11A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
S21-1'	E502283-12A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
S25-1'	E502283-13A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.
526-1'	E502283-14A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.



	0	ampic D	aca			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	•	Ray State Slot 4 23003-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			3/6/2025 1:07:03PM
		FS01-2.5'				
		E502283-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
enzene	ND	0.0250	1	02/28/25	03/02/25	
thylbenzene	ND	0.0250	1	02/28/25	03/02/25	
oluene	ND	0.0250	1	02/28/25	03/02/25	
Xylene	ND	0.0250	1	02/28/25	03/02/25	
m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
otal Xylenes	ND	0.0250	1	02/28/25	03/02/25	
urrogate: 4-Bromochlorobenzene-PID		82.2 %	70-130	02/28/25	03/02/25	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
asoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	02/28/25	03/02/25	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2509116
iesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
il Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
urrogate: n-Nonane		91.1 %	61-141	02/28/25	03/01/25	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2509124
hloride	1520	20.0	1	02/28/25	02/28/25	

# Sample Data



## Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/6/2025 1:07:03PM
		FS05-1.5'				
		E502283-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
oluene	ND	0.0250	1	02/28/25	03/02/25	
-Xylene	ND	0.0250	1	02/28/25	03/02/25	
,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Total Xylenes	ND	0.0250	1	02/28/25	03/02/25	
urrogate: 4-Bromochlorobenzene-PID		81.3 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2509116
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
'urrogate: n-Nonane		101 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2509124
Chloride	1180	20.0	1	02/28/25	02/28/25	



## Sample Data

	5	ample D	ala			
Matador Resources, LLC.	Project Name:	-	State Slot 4			<b>D</b>
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002		<b>Reported:</b> 3/6/2025 1:07:03PM	
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			3/6/2025 1:07:03PM
		FS06-1.5'				
		E502283-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
Toluene	ND	0.0250	1	02/28/25	03/02/25	
p-Xylene	ND	0.0250	1	02/28/25	03/02/25	
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Total Xylenes	ND	0.0250	1	02/28/25	03/02/25	
Surrogate: 4-Bromochlorobenzene-PID		81.3 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: KH		Batch: 2509116	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
Surrogate: n-Nonane		98.9 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2509124
Chloride	703	20.0	1	02/28/25	02/28/25	



# Sample Data

	D.	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/6/2025 1:07:03PM
		FS08-1'				
		E502283-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
thylbenzene	ND	0.0250	1	02/28/25	03/02/25	
oluene	ND	0.0250	1	02/28/25	03/02/25	
-Xylene	ND	0.0250	1	02/28/25	03/02/25	
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Total Xylenes	ND	0.0250	1	02/28/25	03/02/25	
urrogate: 4-Bromochlorobenzene-PID		81.7 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2509116
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
urrogate: n-Nonane		91.4 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2509124
Chloride	237	20.0	1	02/28/25	02/28/25	



## Sample Data

	D.	ample D	ala			
Matador Resources, LLC.	Project Name:	-	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Number		03-0002		Reported:	
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			3/6/2025 1:07:03PM
		FS09-1.5'				
		E502283-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
Foluene	ND	0.0250	1	02/28/25	03/02/25	
p-Xylene	ND	0.0250	1	02/28/25	03/02/25	
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Fotal Xylenes	ND	0.0250	1	02/28/25	03/02/25	
Surrogate: 4-Bromochlorobenzene-PID		83.0 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2509116
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
Surrogate: n-Nonane		96.2 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2509124
Chloride	1210	40.0	2	02/28/25	02/28/25	



## Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/6/2025 1:07:03PM
		FS10-1.5'				
		E502283-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
Toluene	ND	0.0250	1	02/28/25	03/02/25	
p-Xylene	ND	0.0250	1	02/28/25	03/02/25	
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Fotal Xylenes	ND	0.0250	1	02/28/25	03/02/25	
urrogate: 4-Bromochlorobenzene-PID		81.2 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2509116	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
Surrogate: n-Nonane		102 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: AK		Batch: 2509124
Chloride	998	20.0	1	02/28/25	02/28/25	



## Sample Data

	50	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/6/2025 1:07:03PM
		FS11-1.5'				
		E502283-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
Foluene	ND	0.0250	1	02/28/25	03/02/25	
p-Xylene	ND	0.0250	1	02/28/25	03/02/25	
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Fotal Xylenes	ND	0.0250	1	02/28/25	03/02/25	
Surrogate: 4-Bromochlorobenzene-PID		81.7 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Analyst: KH		Batch: 2509116
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
Surrogate: n-Nonane		99.6 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2509124
Chloride	2040	20.0	1	02/28/25	02/28/25	



# Sample Data

	Di	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 )3-0002 ley Gioveng				<b>Reported:</b> 3/6/2025 1:07:03PM
		FS12-1'					
		E502283-08					
		Reporting					
Analyte	Result	Limit	Dilut	tion P	repared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2509121
Benzene	ND	0.0250	1	0	2/28/25	03/02/25	
thylbenzene	ND	0.0250	1	0	2/28/25	03/02/25	
oluene	ND	0.0250	1	0	2/28/25	03/02/25	
-Xylene	ND	0.0250	1	0	2/28/25	03/02/25	
,m-Xylene	ND	0.0500	1	0	2/28/25	03/02/25	
otal Xylenes	ND	0.0250	1	0	2/28/25	03/02/25	
urrogate: 4-Bromochlorobenzene-PID		80.9 %	70-130	0.	2/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	0	2/28/25	03/02/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	0.	2/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: KH			Batch: 2509116
Diesel Range Organics (C10-C28)	36.0	25.0	1	0	2/28/25	03/01/25	
Dil Range Organics (C28-C36)	50.6	50.0	1	0	2/28/25	03/01/25	
urrogate: n-Nonane		85.6 %	61-141	0.	2/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: AK			Batch: 2509124
Chloride	1490	20.0	1	0	2/28/25	02/28/25	



# Sample Data

	5	ample D	ลเล			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	•	State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Mana	iger: Ash	ley Giovengo			3/6/2025 1:07:03PM
		FS13-1'				
		E502283-09				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
Toluene	ND	0.0250	1	02/28/25	03/02/25	
p-Xylene	ND	0.0250	1	02/28/25	03/02/25	
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Total Xylenes	ND	0.0250	1	02/28/25	03/02/25	
Surrogate: 4-Bromochlorobenzene-PID		82.3 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ai	nalyst: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	Analyst: KH		Batch: 2509116
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
Surrogate: n-Nonane		91.1 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: AK		Batch: 2509124
Chloride	770	20.0	1	02/28/25	02/28/25	



# Sample Data

	Di	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/6/2025 1:07:03PM
		FS14-1'				
		E502283-10				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
Toluene	ND	0.0250	1	02/28/25	03/02/25	
p-Xylene	ND	0.0250	1	02/28/25	03/02/25	
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Fotal Xylenes	ND	0.0250	1	02/28/25	03/02/25	
Surrogate: 4-Bromochlorobenzene-PID		80.9 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2509116
Diesel Range Organics (C10-C28)	30.4	25.0	1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
Surrogate: n-Nonane		87.5 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: AK		Batch: 2509124
Chloride	135	20.0	1	02/28/25	02/28/25	



# Sample Data

	25	ample D	ลเล			
Matador Resources, LLC.	Project Name:	Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numbe	er: 230	03-0002	Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			3/6/2025 1:07:03PM
		FS20-1'				
		E502283-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2509121
Benzene	ND	0.0250	1	02/28/25	03/02/25	
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25	
Toluene	ND	0.0250	1	02/28/25	03/02/25	
p-Xylene	ND	0.0250	1	02/28/25	03/02/25	
p,m-Xylene	ND	0.0500	1	02/28/25	03/02/25	
Total Xylenes	ND	0.0250	1	02/28/25	03/02/25	
Surrogate: 4-Bromochlorobenzene-PID		80.6 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: KH		Batch: 2509116	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25	
Surrogate: n-Nonane		90.4 %	61-141	02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: AK		Batch: 2509124
Chloride	280	20.0	1	02/28/25	02/28/25	



# Sample Data

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 2300	State Slot 4 03-0002 ley Gioveng				<b>Reported:</b> 3/6/2025 1:07:03PM
		FS21-1'					
		E502283-12					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2509121
Benzene	ND	0.0250	1		02/28/25	03/02/25	
thylbenzene	ND	0.0250	1		02/28/25	03/02/25	
oluene	ND	0.0250	1		02/28/25	03/02/25	
-Xylene	ND	0.0250	1		02/28/25	03/02/25	
,m-Xylene	ND	0.0500	1		02/28/25	03/02/25	
otal Xylenes	ND	0.0250	1		02/28/25	03/02/25	
urrogate: 4-Bromochlorobenzene-PID		80.5 %	70-130		02/28/25	03/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2509121
Gasoline Range Organics (C6-C10)	ND	20.0	1		02/28/25	03/02/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130		02/28/25	03/02/25	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: I	КН		Batch: 2509116
Diesel Range Organics (C10-C28)	ND	25.0	1		02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1		02/28/25	03/01/25	
urrogate: n-Nonane		90.8 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: A	AK		Batch: 2509124
Chloride	1250	20.0	1		02/28/25	02/28/25	



### Sample Data

	Di	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/6/2025 1:07:03PM	
		FS25-1'					
		E502283-13					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121	
Benzene	ND	0.0250	1	02/28/25	03/02/25		
Ethylbenzene	ND	0.0250	1	02/28/25	03/02/25		
foluene	ND	0.0250	1	02/28/25	03/02/25		
p-Xylene	ND	0.0250	1	02/28/25	03/02/25		
o,m-Xylene	ND	0.0500	1	02/28/25	03/02/25		
Fotal Xylenes	ND	0.0250	1	02/28/25	03/02/25		
Surrogate: 4-Bromochlorobenzene-PID		80.4 %	70-130	02/28/25	03/02/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2509121	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/25	03/02/25		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	02/28/25	03/02/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KH		Batch: 2509116	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/25	03/01/25		
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/25	03/01/25		
Surrogate: n-Nonane		84.1 %	61-141	02/28/25	03/01/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2509124	
Chloride	3340	40.0	2	02/28/25	02/28/25		



# Sample Data

	<b>Reported:</b> 3/6/2025 1:07:03PM
	•
Analyzed	Notes
	Batch: 2509121
03/02/25	
03/02/25	
03/02/25	
03/02/25	
03/02/25	
03/02/25	
03/02/25	
	Batch: 2509121
03/02/25	
03/02/25	
	Batch: 2509116
03/01/25	
03/01/25	
03/01/25	
	Batch: 2509124
02/28/25	
	03/02/25 03/02/25 03/02/25 03/02/25 03/02/25 03/02/25 03/02/25 03/02/25 03/02/25 03/01/25 03/01/25



# QC Summary Data

		<b>X</b> U N		<u> </u>								
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 3003-0002 .shley Gioveng					<b>Reported:</b> 3/6/2025 1:07:03PM			
		Volatile O	rganics l	by EPA 802	1B				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 (2509121-BLK1)						Prepared: 02/28/25 Analyzed: 03/02/25						
Benzene	ND	0.0250										
Ethylbenzene	ND	0.0250										
Toluene	ND	0.0250										
p-Xylene	ND	0.0250										
p,m-Xylene	ND	0.0500										
Total Xylenes	ND	0.0250										
Surrogate: 4-Bromochlorobenzene-PID	6.68	0.0250	8.00		83.5	70-130						
LCS (2509121-BS1)							Prepared: 0	2/28/25 A	analyzed: 03/02/25			
Benzene	4.90	0.0250	5.00		97.9	70-130						
Ethylbenzene	4.77	0.0250	5.00		95.5	70-130						
Toluene	4.87	0.0250	5.00		97.5	70-130						
p-Xylene	4.80	0.0250	5.00		96.1	70-130						
p,m-Xylene	9.71	0.0500	10.0		97.1	70-130						
Total Xylenes	14.5	0.0250	15.0		96.7	70-130						
Surrogate: 4-Bromochlorobenzene-PID	6.67	0.0250	8.00		83.4	70-130						
Matrix Spike (2509121-MS1)				Source:	E502283-	05	Prepared: 0	2/28/25 A	analyzed: 03/02/25			
Benzene	5.05	0.0250	5.00	ND	101	54-133	1		5			
Ethylbenzene	4.90	0.0250	5.00	ND	97.9	61-133						
Toluene	5.00	0.0250	5.00	ND	100	61-130						
o-Xylene	4.90	0.0250	5.00	ND	97.9	63-131						
p,m-Xylene	9.94	0.0250	10.0	ND	97.9 99.4	63-131						
p,m-Xylene Total Xylenes	14.8	0.0300	15.0	ND	99.4 98.9	63-131						
Surrogate: 4-Bromochlorobenzene-PID	6.72	0.0250	8.00	112	84.0	70-130						
					5502202	05	Prenared: 0	0/28/25 A	analyzed: 03/02/25			
Matrix Spike Dup (2509121-MSD1)				Source:	E502283-	03	rieparea. o.	2/20/2J F	11a1yzeu. 03/02/23			
	5.08	0.0250	5.00						maryzed. 03/02/23			
Benzene	5.08	0.0250	5.00	ND	102	54-133	0.613	20	maryzed: 05/02/25			
Benzene Ethylbenzene	4.92	0.0250	5.00	ND ND	102 98.4	54-133 61-133	0.613 0.444	20 20	maryzeu. 05/02/25			
Benzene Ethylbenzene Toluene	4.92 5.04	0.0250 0.0250	5.00 5.00	ND ND ND	102 98.4 101	54-133 61-133 61-130	0.613 0.444 0.713	20 20 20	maryzeu. 03/02/23			
Benzene Ethylbenzene Toluene o-Xylene	4.92 5.04 4.94	0.0250 0.0250 0.0250	5.00 5.00 5.00	ND ND ND ND	102 98.4 101 98.7	54-133 61-133 61-130 63-131	0.613 0.444 0.713 0.814	20 20 20 20	maryzeu. 03/02/23			
Benzene Ethylbenzene Toluene	4.92 5.04	0.0250 0.0250	5.00 5.00	ND ND ND	102 98.4 101	54-133 61-133 61-130	0.613 0.444 0.713	20 20 20	maryzed. 05/02/23			



# **QC Summary Data**

		$\chi \cup \gamma$							
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		ay State Slot 4 3003-0002					Reported:
Dallas TX, 75240		Project Manager:	А	shley Giovengo					3/6/2025 1:07:03PM
	No	nhalogenated O	rganics	by EPA 801	5D - G	RO			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 (2509121-BLK1)							Prepared: 0	2/28/25 A	nalyzed: 03/02/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			
LCS (2509121-BS2)							Prepared: 0	2/28/25 A	nalyzed: 03/02/25
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0		78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			
Matrix Spike (2509121-MS2)				Source: E	502283-	05	Prepared: 0	2/28/25 A	analyzed: 03/02/25
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			
Matrix Spike Dup (2509121-MSD2)				Source: E	502283-	05	Prepared: 0	2/28/25 A	nalyzed: 03/02/25
Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.9	70-130	1.88	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			



# **QC Summary Data**

		$\mathbf{x} \circ \sim$	•••••	ary Date	•				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 23003-0002 Ashley Giovenge	0				<b>Reported:</b> 3/6/2025 1:07:03PM
Danas 17, 752+0		Tiojeet Manager.	I	Asiney Glovenge	0				5,6,2025 1.07.05114
	Nonh	alogenated Org			Analyst: KH				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2509116-BLK1)							Prepared: 0	2/28/25 A	analyzed: 03/01/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	61-141			
LCS (2509116-BS1)							Prepared: 0	2/28/25 A	analyzed: 03/01/25
Diesel Range Organics (C10-C28)	202	25.0	250		80.7	66-144			
Surrogate: n-Nonane	42.2		50.0		84.4	61-141			
Matrix Spike (2509116-MS1)				Source: l	E502283-	03	Prepared: 0	2/28/25 A	analyzed: 03/01/25
Diesel Range Organics (C10-C28)	216	25.0	250	ND	86.4	56-156			
Surrogate: n-Nonane	46.3		50.0		92.6	61-141			
Matrix Spike Dup (2509116-MSD1)				Source: l	E <b>502283</b> -	03	Prepared: 0	2/28/25 A	analyzed: 03/01/25
Diesel Range Organics (C10-C28)	196	25.0	250	ND	78.5	56-156	9.49	20	
Surrogate: n-Nonane	35.2		50.0		70.3	61-141			



# **QC Summary Data**

			•		•					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 23003-0002 Ashley Giovengo	)				<b>Report</b> 3/6/2025 1:0	
		Anions	by EPA	300.0/9056A					Analyst: A	K
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Not	tes
Blank (2509124-BLK1)							Prepared: 0	2/28/25 A	Analyzed: 02/2	28/25
Chloride	ND	20.0								
LCS (2509124-BS1)							Prepared: 0	2/28/25 A	Analyzed: 02/2	28/25
Chloride	254	20.0	250		102	90-110				
Matrix Spike (2509124-MS1)			Source: I	502283-1	10	Prepared: 0	2/28/25 A	Analyzed: 02/2	28/25	
Chloride	383	20.0	250	135	98.9	80-120				
Matrix Spike Dup (2509124-MSD1)				Source: I	2502283-1	10	Prepared: 0	2/28/25 A	Analyzed: 02/2	28/25
Chloride	388	20.0	250	135	101	80-120	1.39	20		

QC Summary Report Comment:

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



	2 • • • • • • • •	5 <b>111 1</b> 1 ( <b>0 ( 0</b> 5	
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/06/25 13:07

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



#### **Chain of Custody**

Page \_

of

ient: Matador oject: Ray State Slot 4 oject Manager: Ashley Giovengo ddress: 3122 National Parks Hwy Phone: 575-988-0055		b WO			Job				D 2D 3D S	td NM CO UT TX
oject Manager: Ashley Giovengo City, State, Zip: Carlsbad NM, 88220	E	507	228	2	1221					
			-		23	003	-00	52		
			-		Ana	lysis	and	Metho	bd	EPA Program
ty, State, Zip: Carlsbad NM, 88220 Email: agiovengo@ensolum.com			T	Γ		1				SDWA CWA RCRA
none: 575-988-0055 Miscellaneous:			1							
nail: agiovengo@ensolum.com		015	015							Compliance Y or N PWSID #
Sample Information		- Ad C	8 Aq C	8021	260	300.0	WN	2-TX	Aetals	
	Lab Numb	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks
916 2126/25 Soil 1 FS01-2.5'	1						+			
0413 05-1.5'	2						+			
06-1.5	3						+			
08-1	Ч						+			
1912 04-1.5'	5						+			
10-1.5	6						+			
914 11-1.5	7		_				+			
1915 12-1'	8						+	_		
13-11	9						+			
2925 1 1 1 14 - 1'	10						4			
dditional Instructions:       Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iest         (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the mpled by:	ne sample loca	tion, dat	te or tin	ne of co	ollectio	_	nsidere Sample sample	d fraud s requirir	and may be ground ng thermal preservatio ived packed in ice at a	
							Rece	ived o	on ice: 👌	/ N
	2-28-2 Date	5 C	0 <u>43</u>	0	-		T1	Tom	<u>T2</u>	<u> </u>
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Container T	ype: g	- glas	s, p -	poly/	plasti		Temp	r glass v - VOA	
ote: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samp imples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is	ples will be r	eturne	d to cli	ent or	dispo	sed of	f at the	client	expense. The rep	virote

#### **Chain of Custody**

	Clin	ent Inform	ation			1	Invoice Informa	tion	1		13	ab Us	e On	lv	-	T	т	AT		State
Cliante M		ant miorn	ation		-	Compos		tion	-	ah MC	-	ub 03	Job		hor	-		3D Sto		
Client: N	Ray State Slo	st 1					y: Ensolum LLC : 3122 National Par	ke Hway		ab WC		2			-00		1D 2D		X	
	Aanager: As		engo				te, Zip: Carlsbad NN			-30,		22	2.50	0.5	-00	10	_			
and the second second	3122 Natio	20 C			_		575-988-0055	1,00220					Ana	lysis	and f	Aeth	od		E	PA Program
	e, Zip: Carls						agiovengo@ensolu	m.com		-	1			19515					SDWA	CWA RCRA
	575-988-005	and the second second	COLLO			Miscella		m.com												
	giovengo@e		om			linibeena				L.	S.								Complian	ce Y or N
			100		_	-				801	8015	-	-	0.0	-	×	s		PWSID #	
				Sam	ple Infor	mation				30 by	30 by	802	8260	e 300	- NN	1- 50	Meta			
Time Sampled	Date Sampled	Matrix	No. of Containers			Sam	ole ID	Field	Lab Numb	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	_		Remarks
0448	2/26/25	Seil	1	-	f	515	-11				-	-	-		th	RG			Sample Der Ti	es marked out mmu G.
	1	1				14	11								1	16			MRG	<u>mmy 6.</u> 25
0922						14										up			2.27	25
0922						20	-1'		11						+					
0923						21	-1'		12	2					+		7			
						- 2/1	=1								+	ues				
0947						14	-1						100			MA	_			
0917		-				25	)-l'		13	3					+					
0944						26	p−1'		10	1					+					
0943						T	7-1'						-		+	ues				
6941						-30	<u>}-1'</u>				-	-		-	+	ues	•			
0947	HOR					3	L-j- H66		15	5					+	HC	-			
Addition	al Instructio	ons: Ple	ase CC: a	agiovengo	@ensolu	m.com, ch	amilton@ensolum.	com, iestre	lla@en	solum	.com,	bsim	mon	s@e	nsolu	m.co	m, jgor	zalez@e	nsolum.co	Q SIMATILE, ma
ensalur	N.GM										-	-		_						
		onzalez		ty of this samp	le. I am aw	are that tamp	ering with or intentionally n	nislabeling the s	ample loc	ation, dat	e or tin	ne of co	llection	n is coi	nsidered	d frauc	and may I	be grounds f	or legal action	•
Sampled by Relinquish			Dat		Time	Rece	ived by: (Signature)	Dat	e	Tim	e	-	1	-	Sample	requir	ing thermal	preservation r	nust be received	I on ice the day they are
An	ed by: (Signatu	nu	2	hahs		1V	ived by: (Signature)	alec 2	227.2	5	104	2						d in ice at an a	vg temp above	0 but less than 6 °C on
Relinquish	ed by (Signatu	bre)	Dat	e	Time	Rece	iver by; (Signature)	Dat		Tim	e	~	1		subseau	ient da	15	Lab L	Jse Only	
	edby:/Signaty	10	Dat	17.25	153 Time	0 ,	ived by: (Signature)	2 Dat	.27.2	.5		45			Rece	ived	on ice:	(Y)	N	
Kennquisi		"M	1.	.27.25	224		unda D He	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28-2		430	5			T1			T2		<u>T3</u>
Relinquist	ed by: (Signatu	ure)	Dat		Time		ived by (Signature)	Dat		Tim			1							
							11			22					AVG	Tem	p°C_	1		
Sample Ma	trix: S - Soil, Sd - S	Solid, Sg - Slu	dge, A - Aq	ueous. 0 - Oth	er			Co	ntainer	Type: g	- glas	s, p - 1	ooly/r	olasti	c, ag -	amb	er glass,	v - VOA		

Page 26 of 27

C

envirotech
#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Da	ate Received:	02/28/25 04:	30	Work Order ID: E502283
Phone:	(972) 371-5200 Da	ate Logged In:	02/27/25 16:	21	Logged In By: Noe Soto
Email:		le Date:	03/06/25 17:	00 (4 day TAT)	
Chain o	f Custody (COC)				
	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was th	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comments/Resolution
Sample	<u>Turn Around Time (TAT)</u>				
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Project Ray State Slot 4 has been separated
Sample	<u>Cooler</u>				into 2 WOs due to high sample volume,
7. Was a	sample cooler received?		Yes		WOs are E502283-E502284.
8. If yes	, was cooler received in good condition?		Yes		
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes		
10. Were	e custody/security seals present?		No		
11. If ye	s, were custody/security seals intact?		NA		
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>		
	Container	-			
	aqueous VOC samples present?		No		
15. Are	VOC samples collected in VOA Vials?		NA		
16. Is th	e head space less than 6-8 mm (pea sized or less)?		NA		
17. Was	a trip blank (TB) included for VOC analyses?		NA		
18. Are	non-VOC samples collected in the correct containers?		Yes		
	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample containers	collected?	Yes Yes		
	appropriate volume/weight or number of sample containers	collected?			
19. Is the Field La 20. Were	appropriate volume/weight or number of sample containers <u>bel</u> e field sample labels filled out with the minimum inform		Yes		
19. Is the Field La 20. Were	appropriate volume/weight or number of sample containers <u>abel</u> te field sample labels filled out with the minimum inform Sample ID?		Yes Yes		
19. Is the <u>Field La</u> 20. Were	appropriate volume/weight or number of sample containers <u>ubel</u> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		Yes Yes Yes		
19. Is the Field La 20. Were	e appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		Yes Yes		
19. Is the <u>Field La</u> 20. Were Sample	appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	ation:	Yes Yes Yes Yes		
19. Is the Field La 20. Were 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese	ation:	Yes Yes Yes Yes No		
19. Is the Field La 20. Were 3 5 6 5 6 5 6 5 6 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9	appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	ation: erved?	Yes Yes Yes Yes		
19. Is the Field La 20. Were Sample 21. Does 22. Are 24. Is lal	appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> a the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta	ation: erved?	Yes Yes Yes Yes No NA		
19. Is the Field La 20. Were Sample 21. Does 22. Are 24. Is lal Multiph	appropriate volume/weight or number of sample containers <b>abel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> as the COC or field labels indicate the samples were preses sample(s) correctly preserved? o filteration required and/or requested for dissolved meta <b>ase Sample Matrix</b>	ation: erved? ıls?	Yes Yes Yes No NA No		
19. Is the Field La 20. Were Sample 21. Does 22. Are 24. Is lat Multiph 26. Does	appropriate volume/weight or number of sample containers <b>abel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> is the COC or field labels indicate the samples were prese sample(s) correctly preserved? to filteration required and/or requested for dissolved meta <b>hase Sample Matrix</b> is the sample have more than one phase, i.e., multiphase?	ation: erved? ils?	Yes Yes Yes No NA No		
19. Is the <u>Field La</u> 20. Were 20. Were 21. Does 22. Are 24. Is lat <u>Multiph</u> 26. Does 27. If ye	e appropriate volume/weight or number of sample containers <b>bel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> is the COC or field labels indicate the samples were prese sample(s) correctly preserved? to filteration required and/or requested for dissolved meta <b>tase Sample Matrix</b> is the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	ation: erved? ils?	Yes Yes Yes No NA No		
19. Is the Field La 20. Were Sample 21. Does 22. Are 24. Is lat Multiph 26. Does 27. If ye Subcont	appropriate volume/weight or number of sample containers <b>abel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> is the COC or field labels indicate the samples were prese sample(s) correctly preserved? to filteration required and/or requested for dissolved meta <b>hase Sample Matrix</b> is the sample have more than one phase, i.e., multiphase?	ation: erved? ils? d?	Yes Yes Yes No NA No		

C

Date

envirotech Inc.

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





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:

Ray State Slot 4

Work Order: E502284

Job Number: 23003-0002

Received: 2/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/6/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 3/6/25

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

Project Name: Ray State Slot 4 Workorder: E502284 Date Received: 2/28/2025 4:30:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2025 4:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS36-1.5'	6
FS39-1'	7
FS40-1'	8
FS41-1'	9
FS42-1'	10
FS44-1.5'	11
FS45-1.5'	12
FS46-1.5'	13
FS47-1'	14
FS48-1'	15
FS49-1'	16
FS50-1'	17
FS52-1'	18
FS53-1'	19
FS16-1'	20
FS56-1'	21
FS22-1'	22
QC Summary Data	23
QC - Volatile Organic Compounds by EPA 8260B	23
QC - Nonhalogenated Organics by EPA 8015D - GRO	24

•

# Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	25
QC - Anions by EPA 300.0/9056A	26
Definitions and Notes	27
Chain of Custody etc.	28

#### **Sample Summary**

		Sample Sum	mary			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo		<b>Reported:</b> 03/06/25 10:12	
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
FS36-1.5'	E502284-01A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS39-1'	E502284-02A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS40-1'	E502284-03A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS41-1'	E502284-04A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS42-1'	E502284-05A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS44-1.5'	E502284-06A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
<sup>2</sup> S45-1.5'	E502284-07A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS46-1.5'	E502284-08A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS47-1'	E502284-09A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS48-1'	E502284-10A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS49-1'	E502284-11A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS50-1'	E502284-12A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS52-1'	E502284-13A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
<sup>7</sup> S53-1'	E502284-14A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS16-1'	E502284-15A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
FS56-1'	E502284-16A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	
'S22-1'	E502284-17A	Soil	02/26/25	02/28/25	Glass Jar, 2 oz.	



	S	ample D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manaş	er: 2300	Ray State Slot 4 23003-0002 Ashley Giovengo			<b>Reported:</b> 3/6/2025 10:12:01AM
		FS36-1.5'				
		E502284-01				
Analyte	Result	Reporting Limit	Dilu	tion Prepar	ed Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2509122
Benzene	ND	0.0250	1	02/28/	25 03/03/25	
Ethylbenzene	ND	0.0250	1	02/28/	25 03/03/25	
Toluene	ND	0.0250	1	02/28/	25 03/03/25	
p-Xylene	ND	0.0250	1	02/28/	25 03/03/25	
o,m-Xylene	ND	0.0500	1	02/28/	25 03/03/25	
Fotal Xylenes	ND	0.0250	1	02/28/	25 03/03/25	
Surrogate: Bromofluorobenzene		105 %	70-130	02/28/	25 03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/28/	25 03/03/25	
Surrogate: Toluene-d8		107 %	70-130	02/28/	25 03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/	25 03/03/25	
Surrogate: Bromofluorobenzene		105 %	70-130	02/28/	25 03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/28/	25 03/03/25	
Surrogate: Toluene-d8		107 %	70-130	02/28/	25 03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	enated Organics by EPA 8015D - DRO/ORO mg/kg mg/kg Analyst: KH					Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0	1	02/28/	25 03/01/25	
Dil Range Organics (C28-C36)	ND	50.0	1	02/28/	25 03/01/25	
Surrogate: n-Nonane		102 %	61-141	02/28/	25 03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2509125
Chloride	1450	20.0	1	02/28/	25 02/28/25	



#### Sample Data

		ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numb	2	State Slot 03-0002	4		Reported:	
Dallas TX, 75240	Project Manag		ley Gioven	igo			3/6/2025 10:12:01AM
		-					
		FS39-1'					
		E502284-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
p,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		105 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
'urrogate: Bromofluorobenzene		105 %	70-130		02/28/25	03/03/25	
urrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		02/28/25	03/03/25	
urrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KH			Batch: 2509115	
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		106 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	JM		Batch: 2509125
Chloride	1330	20.0		1	02/28/25	02/28/25	



#### Sample Data

	St	imple D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS40-1'					
	-	E502284-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Fotal Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		105 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		105 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KH			Batch: 2509115	
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		99.5 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2509125
Chloride	2090	20.0		1	02/28/25	02/28/25	



#### Sample Data

	. Du	imple D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manage	r: 2300	State Slot 03-0002 ey Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
	1	E502284-04					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
o-Xylene	ND	0.0250		1	02/28/25	03/03/25	
p,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2509115	
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		101 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2509125
Chloride	1910	20.0		1	02/28/25	02/28/25	



#### Sample Data

	54	inple D	utu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number Project Manage	.: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS42-1'					
	I	2502284-05					
Analyta	Result	Reporting Limit	Dil	ution	Dronorod	Analyzad	Notes
Analyte	Result	Limit	DII	ution	Prepared	Analyzed	Inotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Fotal Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: KH			Batch: 2509115	
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		101 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2509125
Chloride	1930	40.0		2	02/28/25	02/28/25	



#### Sample Data

	50	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 23003-0002					<b>Reported:</b> 3/6/2025 10:12:01AM
		FS44-1.5'					
		E502284-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
o-Xylene	ND	0.0250		1	02/28/25	03/03/25	
p,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: KH			Batch: 2509115	
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		102 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2509125
Chloride	2800	40.0		2	02/28/25	02/28/25	



#### Sample Data

		ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
	, ,	FS45-1.5'		0			
		F 545-1.5 E502284-07					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
o-Xylene	ND	0.0250		1	02/28/25	03/03/25	
p,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		106 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		106 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH			Batch: 2509115
Diesel Range Organics (C10-C28)	27.7	25.0		1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		94.4 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	JM		Batch: 2509125
Chloride	1570	40.0		2	02/28/25	02/28/25	



#### Sample Data

		ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name:Ray State SlotProject Number:23003-0002Project Manager:Ashley Gioven					<b>Reported:</b> 3/6/2025 10:12:01AM	
	Floject Mailag	ci. Asii	ley Glover	igo			5/0/2023 10:12:01AW
		FS46-1.5'					
		E502284-08					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH			Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		103 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2509125
Chloride	1290	20.0		1	02/28/25	02/28/25	



#### Sample Data

	Sa	inple D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number Project Manage		State Slot )3-0002 ley Gioven				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS47-1'					
	I	502284-09					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		102 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		102 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KH		Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		102 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	JM		Batch: 2509125
Chloride	999	20.0		1	02/28/25	02/28/25	



#### Sample Data

	54	imple D	ara				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number Project Manage	r: 2300	State Slot )3-0002 ley Gioven				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS48-1'					
	I	E502284-10					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KH		Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		98.9 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2509125
Chloride	1070	20.0		1	02/28/25	02/28/25	



Sample Data	
-------------	--

	50	imple D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manage	r: 2300	State Slot 03-0002 ley Gioven				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS49-1'					
	]	E502284-11					
	Dk	Reporting	ויס	÷			
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Fotal Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
urrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
urrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	КН		Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		99.1 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2509125
Chloride	763	20.0		1	02/28/25	02/28/25	



Sample Data	
-------------	--

	50	imple D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot )3-0002 ley Gioven				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS50-1'					
	]	E502284-12					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KH		Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		98.4 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2509125
Chloride	1350	20.0		1	02/28/25	02/28/25	



Sampl	le Data	
Samp	it Data	

	D.	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS52-1'					
		E502284-13					
Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KH		Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		97.9 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2509125
Chloride	504	20.0		1	02/28/25	02/28/25	



Sample Data
-------------

	b	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot )3-0002 ley Gioven				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS53-1'					
		E502284-14					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
o-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KH		Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		101 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2509125
Chloride	1200	20.0		1	02/28/25	02/28/25	



Sample Data
-------------

	Da	imple D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manage	r: 2300	State Slot 03-0002 ey Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS16-1'					
	1	E502284-15					
Analyte	Result	Reporting Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		107 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KH		Batch: 2509115
Diesel Range Organics (C10-C28)	35.9	25.0		1	02/28/25	03/01/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		102 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2509125
Chloride	2170	40.0		2	02/28/25	02/28/25	



#### **Sample Data**

	50	imple D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS56-1'					
	]	E502284-16					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Foluene	ND	0.0250		1	02/28/25	03/03/25	
p-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Total Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KH		Batch: 2509115
Diesel Range Organics (C10-C28)	ND	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		99.3 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	JM		Batch: 2509125
Chloride	1380	20.0		1	02/28/25	02/28/25	



Sample Data
-------------

	0	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numł Project Mana	ber: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/6/2025 10:12:01AM
		FS22-1'					
		E502284-17					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Benzene	ND	0.0250		1	02/28/25	03/03/25	
Ethylbenzene	ND	0.0250		1	02/28/25	03/03/25	
Toluene	ND	0.0250		1	02/28/25	03/03/25	
o-Xylene	ND	0.0250		1	02/28/25	03/03/25	
o,m-Xylene	ND	0.0500		1	02/28/25	03/03/25	
Fotal Xylenes	ND	0.0250		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2509122
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/28/25	03/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		02/28/25	03/03/25	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		02/28/25	03/03/25	
Surrogate: Toluene-d8		108 %	70-130		02/28/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KH		Batch: 2509115
Diesel Range Organics (C10-C28)	66.7	25.0		1	02/28/25	03/01/25	
Dil Range Organics (C28-C36)	ND	50.0		1	02/28/25	03/01/25	
Surrogate: n-Nonane		102 %	61-141		02/28/25	03/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2509125
Chloride	2760	40.0		2	02/28/25	02/28/25	



# QC Summary Data

				il y Data					
Matador Resources, LLC.		Project Name:		y State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	003-0002					
Dallas TX, 75240		Project Manager:	As	shley Giovengo				3	/6/2025 10:12:01AM
		Volatile Organic	Compo	unds by EPA	82601	B			Analyst: IY
		Dementing	Sailes	Source		D		RPD	-
Analyte	Result	Reporting Limit	Spike Level	Result	Rec	Rec Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2509122-BLK1)							Prepared: 0	2/28/25 Ana	alyzed: 03/03/25
Benzene	ND	0.0250					1		
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	0.521	0.0250	0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.321		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.497		0.500		108	70-130			
-	0.571						_		
LCS (2509122-BS1)							Prepared: 0	2/28/25 Ana	alyzed: 03/03/25
Benzene	2.39	0.0250	2.50		95.8	70-130			
Ethylbenzene	2.57	0.0250	2.50		103	70-130			
Toluene	2.70	0.0250	2.50		108	70-130			
o-Xylene	2.57	0.0250	2.50		103	70-130			
p,m-Xylene	5.41	0.0500	5.00		108	70-130			
Total Xylenes	7.98	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			
Matrix Spike (2509122-MS1)				Source: E	502284-	08	Prepared: 0	2/28/25 Ana	alyzed: 03/03/25
Benzene	2.25	0.0250	2.50	ND	89.8	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.2	45-135			
Toluene	2.48	0.0250	2.50	ND	99.3	48-130			
o-Xylene	2.52	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.72	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
Matrix Spike Dup (2509122-MSD1)				Source: E	502284-	08	Prepared: 0	2/28/25 Ana	alyzed: 03/03/25
Benzene	2.27	0.0250	2.50	ND	90.7	48-131	0.975	23	
Ethylbenzene	2.45	0.0250	2.50	ND	97.9	45-135	2.76	27	
Toluene	2.55	0.0250	2.50	ND	102	48-130	2.80	24	
o-Xylene	2.64	0.0250	2.50	ND	106	43-135	4.79	27	
p,m-Xylene	5.50	0.0500	5.00	ND	110	43-135	5.56	27	
Total Xylenes	8.14	0.0250	7.50	ND	108	43-135	5.31	27	
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			
Surrogane. Iomene-uo	0.555		0.200			, 5 150			



### QC Summary Data

		QC DI		v					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 8003-0002 shley Giovengo	)				<b>Reported:</b> 3/6/2025 10:12:01AM
	No	onhalogenated O	rganics	by EPA 801:	5D - GI	RO			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 (2509122-BLK1)							Prepared: 0	2/28/25	Analyzed: 03/03/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			
LCS (2509122-BS2)							Prepared: 0	2/28/25	Analyzed: 03/03/25
Gasoline Range Organics (C6-C10)	53.4	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike (2509122-MS2)				Source: E	2502284-0	)8	Prepared: 0	2/28/25	Analyzed: 03/03/25
Gasoline Range Organics (C6-C10)	60.3	20.0	50.0	ND	121	70-130			
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike Dup (2509122-MSD2)				Source: E	502284-0	)8	Prepared: 0	2/28/25	Analyzed: 03/03/25
Gasoline Range Organics (C6-C10)	53.8	20.0	50.0	ND	108	70-130	11.4	20	
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			



### **QC Summary Data**

		QC D		lary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 3/6/2025 10:12:01AM
	Nonh	alogenated Org	anics b	y EPA 8015D -	- DRO	/ORO			Analyst: KH
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2509115-BLK1)							Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.3		50.0		98.6	61-141			
LCS (2509115-BS1)							Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Diesel Range Organics (C10-C28)	233	25.0	250		93.2	66-144			
Surrogate: n-Nonane	49.4		50.0		98.9	61-141			
Matrix Spike (2509115-MS1)				Source: E	502284-	05	Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	53.0		50.0		106	61-141			
Matrix Spike Dup (2509115-MSD1)				Source: E	502284-	05	Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	56-156	3.41	20	
Surrogate: n-Nonane	53.2		50.0		106	61-141			



#### **QC Summary Data**

			•	J –	-				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ray State Slot 4 23003-0002					Reported:
Dallas TX, 75240		Project Manager		Ashley Giovenge	)				3/6/2025 10:12:01AM
		Anions	by EPA	300.0/9056A					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 (2509125-BLK1)							Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Chloride	ND	20.0							
LCS (2509125-BS1)							Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2509125-MS1)				Source: I	E <b>502284-</b> (	04	Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Chloride	2040	20.0	250	1910	54.1	80-120			M4
Matrix Spike Dup (2509125-MSD1)				Source: I	E <b>502284-</b> (	04	Prepared: 0	2/28/25 A	Analyzed: 02/28/25
Chloride	2050	20.0	250	1910	56.1	80-120	0.251	20	M4

QC Summary Report Comment:

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



	Demitions		
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/06/25 10:12

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

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: 4/21/2025 3:13:23 PM

Chain	of	Custody
-------	----	---------

Client Information			ation	Invoice Infor	mation		Lab Use Only								TAT		State	
Client: M				Company: Ensolum LLC							Num	ber		1D	2D 3D	Std	NM CO UT TX	
	ay State Slot	t 4							E502284 23003-0007							Х	X	
	anager: Ash				City, State, Zip: Carlsbad NM, 88220						1.1.					-		
the second s	3122 Nation			Phone: 575-988-0055	a based and an	-			-	Ana	lysis	and	Met	nod	-	1	EPA Program SDWA CWA RCRA	
	e, Zip: Carlst 75-988-0055		88220	Miscellaneous:	Email: agiovengo@ensolum.com												SDWA CWA IICIA	
	iovengo@er	a second s	om		This centre out												Compliance Y or N	
										0	0.0	5	×	tals			PWSID #	
				Sample Information		Lak	ORO by	DRO E	oy 80.	y 826	de 30	C-NI	- 500	8 Me			Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter Z	Lab umber	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks	
0934	2/26/25	Seil	1	FS36-1.5'		1						4						
0932		1		39-1'		2						+						
6927				40-1'		3						+						
0424				41-11		4						X						
0924				42-1'		5						+						
0936				44-1.5'		6						+						
0936				45-1,5'		7						+						
0936				46-1.5		8						5						
6936				47-1		9						X						
0904	1	1		1 48-1'		10						4				_		
Addition	al Instructio	ns: Plea	ase CC: ag	giovengo@ensolum.com, chamilton@ensolu	ım.com, iestrella@	Pensol	um.c	om, I	bsim	mon	ns@e	nsol	um.c	om, j	gonzale	ez@en	solum.com	
I, (field sam	ler), attest to the	e validity and	authenticity	of this sample. I am aware that tampering with or intention	ally mislabeling the sample	e location	n, date	or time	e of co	llection	n is co	nsidere	ed frau	d and r	nay be gro	ounds for	legal action.	
Relinquish	ed by: (Signatur	re)	Date		Date		Time										st be received on ice the day they are temp above 0 but less than 6 °C on	
	na Hin by Signatur hele G		0 Date	Time Received by: (Signature)	Date	1.25	Time	111	)			subser	uent d	avs		Lab Us	e Only	
0	ed by: Sigpatur	10	Date	Time Received by: (Signature)	. 2.27 Date		Time	160	45			Rec	eivec	l on i	:e: (	Y / N		
Relinquish	ed by: (Signatur	re) H	. 2. Date	17.15 1244 1000 11	Hell 2-28 Date	3-25	<b>O</b> Time	430	0			<u>T1</u>			<u>T2</u>	2	<u> </u>	
					Contair	oor Tun	0.0	alace			nlacti	AVC	Ten	np °C	H	704		
	rix: <b>S</b> - Soil, <b>Sd</b> - Soiles are discard			eous, O - Other Its are reported unless other arrangements are made.													for the analysis of the above	

# Released to Imaging: 4/21/2025 3:13:23 PM

					CI	ain of Custod	1													Page_
S	Clier	nt Inform	nation	-	Invoice Inform	nation			La	b Us	e On	ly				TA	AT			ate
Client: N	latador				Address: 3122 National Parks Hwy E			ab WO# Job Number							1D 2D 3D Std			_	M CO U	T TX
	Ray State Slo							E 502284 23003-0002									X	X		
	Aanager: Asl				City, State, Zip: Carlsbad N	IM, 88220	-	_										1		is do
	3122 Nation	the second second	Provide and the second second		Phone: 575-988-0055		-			-	Ana	alysis and Method					EPA Program			
	e, Zip: Carls		88220		Email: agiovengo@enso	lum.com	4											SDW	A CVVA	RCR
10 10 10 10 10 10 10 10 10 10 10 10 10 1	575-988-005 giovengo@e	1	om		Miscellaneous:													Compl	iance 1	Y or
Linan. a	giovengowei	isolum.c	UIII				_	8015	8015			0		5	s			PWSIE	and the second second	
				Sample Info	ormation	1		Vd O	0 by	8021	3260	300.	NN-	5 - TX	Meta					
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Field Filter Z	Lab Imber	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				Remar	ks
0433	2/26/25	50:1	1	Ŧ	549-11		11						+							
0424				1	50-1		12						+							
1030					52-1'		13						+							
0426					53-1'		4						+	-						
0915					16 -1'		5						1							
6426				1	56 - 1'		6						×							
0946	1	1	1	FS2	2-1'		7						X							
							_		_		4									
						and leaters II. C				hain						lace		ncolum		
					lum.com, chamilton@ensolun															
, (field sam Sampled by	; Higinio Go	nzalez AA	2 Jenn	Attable	aware that tampering with or intentionally	rinsiabeling the sample	location	i, uate	or time	01 00	nectio	11 15 CO	isider	eu irau	and	may bi	e grounds	or legal ac	uon.	
Relinquist	ed by: (Signatur AHINHL	re)	Date	27/25 Time	Received by: (Signature)	goles 2.2		Time	245	2	1		Sampl	es requ	iring th	ermal p	reservation	must be rece	eived on ice the ove 0 but less ti	
Refinquist	ed by (Signatu	engal	eg Date	17.25 Time	Received by Signature).	Date 2.2		Time	164	15			Rec	eivec	doni	ice:	Lab	Jse Onl N	1	
1/	di by: (Signatu	H.			LYS mulun 1 A	011 Date 2-29	-25	-	434	2			<u>T1</u>			_	<u>T2</u>		<u>T3</u>	
Relinquist	ed by: (Signatu	re)	Date	Time	Received/by: (Signature)	Date		Time					AVO	5 Ten	np °C	4	4			

Sample Matrix: S - Soil, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

B

envirotech

Page 4 of

eceived by OCD: 3/21/2025 12:00:16 AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

lient:	Matador Resources, LLC.	Date Received:	02/28/25 04	:30	Work Order ID: E502284
Phone:	(972) 371-5200 I	Date Logged In:	02/27/25 16	:32	Logged In By: Noe Soto
Email:		Due Date:	03/06/25 17	7:00 (4 day TAT)	
Chain o	f Custody (COC)				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was th	he COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion		Yes		Comments/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>				
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes		Project Ray State Slot 4 has been separated
Sample	<u>Cooler</u>				into 2 WOs due to high sample volume,
7. Was a	sample cooler received?		Yes		WOs are E502283-E502284.
8. If yes,	, was cooler received in good condition?		Yes		
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes		
10. Were	e custody/security seals present?		No		
11. If ye	s, were custody/security seals intact?		NA		
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are r		Yes		
13 Ifno	minutes of sampling visible ice, record the temperature. Actual sample te	mnerature 4º	۲C		
		inperature. <u>1</u>	<u> </u>		
	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 container	s collected?	Yes		
Field La					
	e field sample labels filled out with the minimum inform	nation:			
	Sample ID?		Yes		
	Date/Time Collected?		Yes	l	
	Collectors name?		Yes		
	Preservation	10			
	s the COC or field labels indicate the samples were pres	served?	No		
	sample(s) correctly preserved?	ia1a9	NA		
	b filteration required and/or requested for dissolved me	ais?	No		
	ase Sample Matrix	_			
	s 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 analyze	ed?	NA		
	tract Laboratory				
28. Are s	samples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA S		



Date

envirotech Inc.

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





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:

Ray State Slot 4

Work Order: E502293

Job Number: 23003-0002

Received: 3/3/2025

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 3/7/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 3/7/25

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

Project Name: Ray State Slot 4 Workorder: E502293 Date Received: 3/3/2025 7:00:46AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 7:00:46AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@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

•

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS15-1.5'	6
FS17-1.5'	7
FS18-1.5'	8
FS19-1.5'	9
FS24-2'	10
FS27-1.5'	11
FS28-2'	12
FS29-2'	13
FS30-2'	14
FS31-1.5'	15
FS32-4'	16
FS33-4'	17
FS34-4'	18
FS35-1.5'	19
FS43-2'	20
FS51-2'	21
FS54-2'	22
FS55-2'	23
SW01-0'-1.5'	24
SW02-0'-1.5'	25

.

# Table of Contents (continued)

	SW03-0'-4'	26
	SW04-0'-4'	27
	SW05-0'-1.5'	28
	FS23-1.5'	29
Q	C Summary Data	30
	QC - Volatile Organic Compounds by EPA8260B	30
	QC - Volatile Organics by EPA 8021B	31
	QC - Nonhalogenated Organics by EPA 8015D - GRO	32
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	34
	QC - Anions by EPA 300.0/9056A	36
D	efinitions and Notes	38
С	hain of Custody etc.	39

#### **Sample Summary**

		Sample Summary				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	Ray State Slot 4 23003-0002 Ashley Giovengo		<b>Reported:</b> 03/07/25 16:54	
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
815-1.5'	E502293-01A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
S17-1.5'	E502293-02A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
S18-1.5'	E502293-03A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
\$19-1.5'	E502293-04A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
S24-2'	E502293-05A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
S27-1.5'	E502293-06A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
S28-2'	E502293-07A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
829-2'	E502293-08A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
\$30-2'	E502293-09A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
\$31-1.5'	E502293-10A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
\$32-4'	E502293-11A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
833-4'	E502293-12A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
S34-4'	E502293-13A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
835-1.5'	E502293-14A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
843-2'	E502293-15A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
851-2'	E502293-16A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
854-2'	E502293-17A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
855-2'	E502293-18A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
W01-0'-1.5'	E502293-19A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
W02-0'-1.5'	E502293-20A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
W03-0'-4'	E502293-21A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
W04-0'-4'	E502293-22A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
W05-0'-1.5'	E502293-23A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	
S23-1.5'	E502293-24A	Soil	02/27/25	03/03/25	Glass Jar, 2 oz.	


		ampic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 2300	State Slot 4 03-0002 ley Gioveng				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS15-1.5'					
		E502293-01					
Analyte	Result	Reporting Limit	Dilu	tion Pre	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Benzene	ND	0.0250	1		03/25	03/04/25	Butch: 2510022
Ethylbenzene	ND	0.0250	1		03/25	03/04/25	
Toluene	ND	0.0250	1	03/	03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/	03/25	03/04/25	
p,m-Xylene	ND	0.0500	1	03/	03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/	03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130	03/	03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	03/	03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130	03/	03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2510022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/	03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130	03/	03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	03/	03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130	03/	03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/OR(	) mg/kg	mg/kg	Analyst: AF			Batch: 2510015	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/	03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/	03/25	03/03/25	
Surrogate: n-Nonane		120 %	61-141	03/	03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2510020
Chloride	2590	40.0	2	03/	03/25	03/03/25	





## Sample Data

	56	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS17-1.5'					
		E502293-02					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Foluene	ND	0.0250		1	03/03/25	03/04/25	
o-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Fotal Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: AF	Batch: 2510015	
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		118 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	955	20.0		1	03/03/25	03/03/25	



## Sample Data

	56	ample D	ara				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS18-1.5'					
		E502293-03					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF	Batch: 2510015	
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		115 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	1370	20.0		1	03/03/25	03/03/25	



### Sample Data

	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS19-1.5'					
		E502293-04					
Auchen	Result	Reporting Limit	D	lution	Duranad	Analyzed	Notes
Analyte	Result	Limit	Di		Prepared	Analyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst			Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF				Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		115 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	605	20.0		1	03/03/25	03/03/25	



Samp	le Data
~ ump	ic Data

	56	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS24-2'					
		E502293-05					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF				Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		113 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	2480	40.0		2	03/03/25	03/03/25	



### Sample Data

	50	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS27-1.5'					
		E502293-06					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: AF				Batch: 2510015
Diesel Range Organics (C10-C28)	36.1	25.0		1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		110 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	2610	40.0		2	03/03/25	03/03/25	



Samp	le Data
~ ump	ic Data

		ample D	utu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numbe	2	Ray State Slot 4 23003-0002				Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giover	ngo			3/7/2025 4:54:29PM
		FS28-2'					
		E502293-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		103 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		103 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF	Batch: 2510015	
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		114 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2510020
Chloride	375	20.0		1	03/03/25	03/03/25	



Samp	le Data
~ ump	ic Data

		ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	er: 2300	State Slot 03-0002				<b>Reported:</b> 3/7/2025 4:54:29PM
Dallas TX, 75240	Project Manag	ger: Asn	ley Giover	igo			3///2025 4:54:29PM
		FS29-2'					
		E502293-08					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF			Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		110 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	3760	40.0		2	03/03/25	03/03/25	



## **Sample Data**

		ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numbe	er: 2300	Ray State Slot 4 23003-0002				Reported:
Dallas TX, 75240	Project Manag	er: Ash	ley Giover	ngo			3/7/2025 4:54:29PM
		FS30-2'					
		E502293-09					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF			Batch: 2510015
Diesel Range Organics (C10-C28)	33.2	25.0		1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		112 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	2510	40.0		2	03/03/25	03/03/25	



## Sample Data

	56	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 03-0002 ley Gioven				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS31-1.5'					
		E502293-10					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		99.1 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		99.1 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/03/25	
Surrogate: n-Nonane		115 %	61-141		03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2510020
Chloride	2340	40.0		2	03/03/25	03/03/25	



	0	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot )3-0002 ley Gioven				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS32-4'					
		E502293-11					
	D. I.	Reporting	51	÷	<b>D</b>		N
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Fotal Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		110 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2510020
Chloride	2240	40.0		2	03/03/25	03/03/25	



Samp	le Data
Samp	ne Data

	5	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manaş	per: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS33-4'					
		E502293-12					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Fotal Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		110 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	2190	40.0		2	03/03/25	03/03/25	



Sam	ole Dat	a
Sam	JIC D'ai	a

	5	ample D	aca				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 3-0002 ey Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
	;;	-	-,	-8-			
		FS34-4' E502293-13					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Foluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Fotal Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		106 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g/kg Analyst: RAS			Batch: 2510022	
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		106 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		120 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2510020
Chloride	2230	20.0		1	03/03/25	03/03/25	



## Sample Data

		imple D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS35-1.5'					
	-	E502293-14					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		105 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	1280	20.0		1	03/03/25	03/03/25	



Samp	ole Data	
Samp	ne Data	

	5	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	State Slot 03-0002 ey Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS43-2'					
		E502293-15					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Fotal Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF		Batch: 2510015
Diesel Range Organics (C10-C28)	47.7	25.0		1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		103 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2510020
Chloride	3280	40.0		2	03/03/25	03/03/25	



Samp	ole Data	
Samp	ne Data	

	5	ample D	ata					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM	
		FS51-2'						
		E502293-16						
		Reporting						
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022	
Benzene	ND	0.0250		1	03/03/25	03/04/25		
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25		
Toluene	ND	0.0250		1	03/03/25	03/04/25		
p-Xylene	ND	0.0250		1	03/03/25	03/04/25		
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25		
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25		
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25		
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		03/03/25	03/04/25		
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: RAS			Batch: 2510022		
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25		
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25		
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		03/03/25	03/04/25		
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: AF		Batch: 2510015	
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25		
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25		
Surrogate: n-Nonane		113 %	61-141		03/03/25	03/04/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020	
Chloride	1110	20.0		1	03/03/25	03/03/25		



Samp	ole Data	
Samp	ne Data	

		ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS54-2'					
		E502293-17					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		100 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		105 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		119 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2510020
Chloride	852	20.0		1	03/03/25	03/04/25	



Samp	le Data	

	56	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot )3-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
		FS55-2'					
		E502293-18					
	D L	Reporting	51				
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Fotal Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		103 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		101 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		103 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		111 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2510020
Chloride	1270	20.0		1	03/03/25	03/04/25	



## Sample Data

		imple D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numbe	2	State Slot 03-0002	4			Reported:
Dallas TX, 75240	Project Manag		ley Gioven	igo			3/7/2025 4:54:29PM
	S	W01-0'-1.5'					
		E502293-19					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
o-Xylene	ND	0.0250		1	03/03/25	03/04/25	
p,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		107 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		107 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF		Batch: 2510015
Diesel Range Organics (C10-C28)	28.9	25.0		1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		107 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2510020
Chloride	1940	20.0		1	03/03/25	03/04/25	



## Sample Data

		imple D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	State Slot 03-0002 ley Giover				<b>Reported:</b> 3/7/2025 4:54:29PM
	S	W02-0'-1.5'					
	]	E502293-20					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2510022
Benzene	ND	0.0250		1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250		1	03/03/25	03/04/25	
Toluene	ND	0.0250		1	03/03/25	03/04/25	
p-Xylene	ND	0.0250		1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500		1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		99.1 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RAS		Batch: 2510022
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/03/25	03/04/25	
Surrogate: Bromofluorobenzene		99.1 %	70-130		03/03/25	03/04/25	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		03/03/25	03/04/25	
Surrogate: Toluene-d8		104 %	70-130		03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	AF		Batch: 2510015
Diesel Range Organics (C10-C28)	ND	25.0		1	03/03/25	03/04/25	
Oil Range Organics (C28-C36)	ND	50.0		1	03/03/25	03/04/25	
Surrogate: n-Nonane		111 %	61-141		03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2510020
Chloride	1580	20.0		1	03/03/25	03/04/25	



### Sample Data

	3	ample D	ala			
Matador Resources, LLC.	Project Name:	•	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ey Giovengo			3/7/2025 4:54:29PM
		SW03-0'-4'				
		E502293-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	st: RAS		Batch: 2510007
Benzene	ND	0.0250	1	03/03/25	03/04/25	
thylbenzene	ND	0.0250	1	03/03/25	03/04/25	
oluene	ND	0.0250	1	03/03/25	03/04/25	
-Xylene	ND	0.0250	1	03/03/25	03/04/25	
,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
urrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RAS		Batch: 2510007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KH		Batch: 2510016
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
urrogate: n-Nonane		109 %	61-141	03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2510021
Chloride	817	20.0	1	03/03/25	03/03/25	



## Sample Data

	50	ample D	ala			
Matador Resources, LLC.	Project Name:	Ray	State Slot 4			
5400 LBJ Freeway, Suite 1500	Project Number	er: 2300	03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ey Giovengo			3/7/2025 4:54:29PM
		SW04-0'-4'				
		E502293-22				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2510007
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
o-Xylene	ND	0.0250	1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2510007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2510016
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
Surrogate: n-Nonane		106 %	61-141	03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2510021
Chloride	907	20.0	1	03/03/25	03/03/25	



### Sample Data

	52	imple D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numbe	•	State Slot 4 03-0002			Reported:
Dallas TX, 75240	Project Manag	er: Ashi	ey Giovengo			3/7/2025 4:54:29PM
	S	W05-0'-1.5'				
	-	E502293-23				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2510007
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
p-Xylene	ND	0.0250	1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Fotal Xylenes	ND	0.0250	1	03/03/25	03/04/25	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2510007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KH		Batch: 2510016
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
Surrogate: n-Nonane		102 %	61-141	03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2510021
Chloride	1200	20.0	1	03/03/25	03/03/25	



## Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	State Slot 4 03-0002 ley Giovengo			<b>Reported:</b> 3/7/2025 4:54:29PM
Duius 17, 752+0	Tiojeet Mana	0	ley diovengo			0.02020 10.02011
		FS23-1.5'				
		E502293-24				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2510007
Benzene	ND	0.0250	1	03/03/25	03/04/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/04/25	
Toluene	ND	0.0250	1	03/03/25	03/04/25	
p-Xylene	ND	0.0250	1	03/03/25	03/04/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/04/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/04/25	
urrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2510007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/04/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	03/03/25	03/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2510016
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/04/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/04/25	
Gurrogate: n-Nonane		111 %	61-141	03/03/25	03/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2510021
Chloride	2320	20.0	1	03/03/25	03/03/25	

# QC Summary Data

Matador Resources, LLC.		Project Name:		y State Slot 4					Reported:	
5400 LBJ Freeway, Suite 1500		Project Number:		003-0002						
Dallas TX, 75240		Project Manager:	As	shley Giovengo					3/7/2025 4:54:29PM	
		Volatile Organic	Compou	unds by EPA	82601	B	Analyst: RAS			
Analyte		Reporting	Spike	Source		Rec		RPD		
i inary co	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2510022-BLK1)							Prepared: 0	3/03/25 A	nalyzed: 03/04/25	
Benzene	ND	0.0250					1		•	
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130				
Surrogate: Toluene-d8	0.526		0.500		105	70-130				
LCS (2510022-BS1)							Prepared: 0	3/03/25 A	nalyzed: 03/04/25	
Benzene	2.58	0.0250	2.50		103	70-130			-	
Ethylbenzene	2.63	0.0250	2.50		105	70-130				
Toluene	2.70	0.0250	2.50		108	70-130				
o-Xylene	2.85	0.0250	2.50		114	70-130				
p,m-Xylene	5.63	0.0500	5.00		113	70-130				
Total Xylenes	8.47	0.0250	7.50		113	70-130				
Surrogate: Bromofluorobenzene	0.508	0.0250	0.500		102	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130				
Surrogate: Toluene-d8	0.512		0.500		102	70-130				
Matrix Spike (2510022-MS1)				Source: E	502293-	04	Prepared: 0	3/03/25 A	nalyzed: 03/04/25	
Benzene	2.66	0.0250	2.50	ND	106	48-131				
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135				
Toluene	2.80	0.0250	2.50	ND	112	48-130				
o-Xylene	2.97	0.0250	2.50	ND	119	43-135				
p,m-Xylene	5.92	0.0500	5.00	ND	118	43-135				
Total Xylenes	8.89	0.0250	7.50	ND	118	43-135				
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130				
Surrogate: Toluene-d8	0.520		0.500		104	70-130				
Matrix Spike Dup (2510022-MSD1)				Source: E	502293-	04	Prepared: 0	3/03/25 A	nalyzed: 03/04/25	
Benzene	2.63	0.0250	2.50	ND	105	48-131	1.12	23	*	
Ethylbenzene	2.72	0.0250	2.50	ND	109	45-135	0.968	27		
Toluene	2.79	0.0250	2.50	ND	111	48-130	0.412	24		
p-Xylene	2.97	0.0250	2.50	ND	119	43-135	0.253	27		
	5.86	0.0230	5.00	ND	117	43-135	1.02	27		
p,m-Xylene Total Xylenes	8.83	0.0500	7.50	ND	117	43-135	0.593	27		
Surrogate: Bromofluorobenzene	0.524	0.0250	0.500	112	105	70-130	0.575	21		
surrogate: Bromojiuorobenzene Surrogate: 1,2-Dichloroethane-d4	0.324		0.500		95.4	70-130				
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.477		0.500		95.4 104	70-130				



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 8003-0002 shley Gioveng					<b>Reported:</b> 3/7/2025 4:54:29PM
		Volatile O	rganics t	1B				Analyst: RAS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2510007-BLK1)							Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.7	70-130			
LCS (2510007-BS1)							Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Benzene	4.83	0.0250	5.00		96.6	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			
Matrix Spike (2510007-MS1)				Source:	E502293-1	24	Prepared: 0	3/03/25 A	analyzed: 03/04/25
Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			
Matrix Spike Dup (2510007-MSD1)				Source:	E502293-	24	Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Benzene	5.32	0.0250	5.00	ND	106	54-133	5.33	20	
Ethylbenzene	5.28	0.0250	5.00	ND	106	61-133	5.73	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	5.54	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	5.89	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	5.73	20	
0,111-7X yielle									
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131	5.78	20	



# **QC Summary Data**

		$\chi \cup \sim$		ing Dutte					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2.	ay State Slot 4 3003-0002 shley Giovengo					<b>Reported:</b> 3/7/2025 4:54:29PM
	Nor	nhalogenated O	rganics	by EPA 8015	5D - GI	RO			Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2510007-BLK1)							Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			
LCS (2510007-BS2)							Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130	_		-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			
Matrix Spike (2510007-MS2)				Source: E	502293-2	24	Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			
Matrix Spike Dup (2510007-MSD2)				Source: E	502293-2	24	Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	89.9	70-130	9.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.4	70-130			



# **QC Summary Data**

		<b>X U N</b>		ii y Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ay State Slot 4 3003-0002 shley Giovengo					<b>Reported:</b> 3/7/2025 4:54:29PM
	No		Analyst: RAS						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2510022-BLK1)							Prepared: 0	3/03/25	Analyzed: 03/04/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			
LCS (2510022-BS2)							Prepared: 0	3/03/25	Analyzed: 03/07/25
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.2	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
Matrix Spike (2510022-MS2)				Source: E	502293-0	4	Prepared: 0	3/03/25	Analyzed: 03/04/25
Gasoline Range Organics (C6-C10)	64.5	20.0	50.0	ND	129	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
Matrix Spike Dup (2510022-MSD2)				Source: E	502293-0	)4	Prepared: 0	3/03/25	Analyzed: 03/04/25
Gasoline Range Organics (C6-C10)	64.2	20.0	50.0	ND	128	70-130	0.492	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: 1,2-Dichloroethane-a4	0.400		0.2 0 0		15.5	/0 150			

# **QC Summary Data**

		QU D	u 111111	ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 3/7/2025 4:54:29PM
	Nonh	alogenated Org	/ORO			Analyst: AF			
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2510015-BLK1)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	52.4		50.0		105	61-141			
LCS (2510015-BS1)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28)	263	25.0	250		105	66-144			
Surrogate: n-Nonane	53.4		50.0		107	61-141			
Matrix Spike (2510015-MS1)				Source: E	502293-	14	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	56-156			
Surrogate: n-Nonane	59.3		50.0		119	61-141			
Matrix Spike Dup (2510015-MSD1)				Source: E	502293-	14	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156	7.93	20	
Surrogate: n-Nonane	55.1		50.0		110	61-141			



# **QC Summary Data**

		QC D	u 111111	lary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Ray State Slot 4 23003-0002 Ashley Giovengo					<b>Reported:</b> 3/7/2025 4:54:29PM
	Nonh	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: KH
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2510016-BLK1)							Prepared: 0	3/03/25 A	analyzed: 03/04/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.8		50.0		102	61-141			
LCS (2510016-BS1)							Prepared: 0	3/03/25 A	analyzed: 03/04/25
Diesel Range Organics (C10-C28)	231	25.0	250		92.5	66-144			
Surrogate: n-Nonane	50.5		50.0		101	61-141			
Matrix Spike (2510016-MS1)				Source: E	502293-	21	Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.4	56-156			
Surrogate: n-Nonane	51.4		50.0		103	61-141			
Matrix Spike Dup (2510016-MSD1)				Source: E	502293-	21	Prepared: 0	3/03/25 A	nalyzed: 03/04/25
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.3	56-156	0.131	20	
Surrogate: n-Nonane	52.9		50.0		106	61-141			



# **QC Summary Data**

		<b>C</b>	-						
Matador Resources, LLC.		Project Name:	I	Ray State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	2	23003-0002					-
Dallas TX, 75240		Project Manager:	: /	Ashley Giovengo	•				3/7/2025 4:54:29PM
		Anions	by EPA	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 (2510020-BLK1)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Chloride	ND	20.0							
LCS (2510020-BS1)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2510020-MS1)				Source: E	502293-0	)3	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Chloride	1630	20.0	250	1370	101	80-120			
Matrix Spike Dup (2510020-MSD1)				Source: E	502293-0	)3	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Chloride	1700	20.0	250	1370	131	80-120	4.40	20	M4



# **QC Summary Data**

				J					
Matador Resources, LLC.		Project Name:	I	Ray State Slot 4					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	2	23003-0002					
Dallas TX, 75240		Project Manager	: 1	Ashley Gioveng	0				3/7/2025 4:54:29PM
		Anions	by EPA	300.0/9056A	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 (2510021-BLK1)							Prepared: 0	3/03/25 A	Analyzed: 03/03/25
Chloride	ND	20.0							
LCS (2510021-BS1)							Prepared: 0	3/03/25 A	Analyzed: 03/03/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2510021-MS1)				Source:	E502292-	02	Prepared: 0	3/03/25 A	Analyzed: 03/03/25
Chloride	299	20.0	250	30.8	107	80-120			
Matrix Spike Dup (2510021-MSD1)				Source:	E502292-	02	Prepared: 0	3/03/25 A	Analyzed: 03/03/25
Chloride	294	20.0	250	30.8	105	80-120	1.48	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.



	Demition		
Matador Resources, LLC.	Project Name:	Ray State Slot 4	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/07/25 16:54

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.



#### **Chain of Custody**

	Chain of Cu	ustody											Page
Client Information	Invoice Information			La	b Us	e On	ily				TAT		State
Client: Matador	Company: Ensolum LLC	l	.ab WO	<u>محطً</u>	2	Job I	Num	ber		1D 2	2D 3D	Std	NM CO UT TX
Project: Ray State Slot 4	Address: 3122 National Parks Hwy		Lab WO# Job Number E50229323003.00									Х	X
Project Manager: Ashley Giovengo	<u>City, State, Zip: Carlsbad NM, 88220</u>	State, Zip: Carlsbad NM, 88220											
Address: 3122 National Parks Hwy	Phone: 575-988-0055			<u>т</u> т		Ana	lysis	and I	Meth	iod	<u> </u>	-+	EPA Program
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com											╿┞	SDWA CWA RCRA
Phone: 575-988-0055 Email: agiovengo@ensolum.com	Miscellaneous:												Compliance Y or N
			801	801	_		0			<u>م</u>			PWSID #
Sa	ple Information		<u>م</u>	ېم و	8021	8260	8 8	WN.	с-2	Meta			
Time Date Sampled Matrix No. of Containers	Sample ID	Lat Lat Num	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
0436 2/27/25 Soil 1	FS15-1.5'							4					
0451 1 1	1 17 - 1	2						4					
0453	18 -	3						7					
ins	19 - 1	4						4					
1123	24 -2'	5	,					+	_				
5431	27-1,5'	le						7					
2920	28-2'	1						$\uparrow$					
0411	29-2'	8					<b>_</b>	$\left  + \right $				Ш	
0418	30-2	9			ļ			4					
1456 1 1 1	31-1.5'	0			Ļ			+					
Additional Instructions: Please CC: agioveng	@ensolum.com, chamilton@ensolum.com, iest	rella@en	isolum.	com, I	DSIM	mon	ns@e	nsolu	m.co	om, jg	onzalez	@ens	olum.com
, (field sampler), attest to the validity and authenticity of this sa iampled by:Higinio Gonzalez_ MA Jenna Hin	ple. I am aware that tampering with or intentionally mislabeling the	e sample loc	ation, date	e or time	e of co	llectio	n is coi	nsidere	d frauc	d and m	ay be grou	inds for l	egal action.
Relinquished by: (Signature) Date DOWNA HI, NIA LA U28/25	Time (Received by resignatore) 19945 (Richelle Gonzales)	J. J. J. J.	S C	294	5				d or rec	eived pa	cked in ice a	at an avg	t be received on ice the day they are temp above 0 but less than 6 °C on
Relinquished by: (Signature) Michelle Gonzales 2:28-2	Time Received by: (Signature)	Date 2.28.	تime کے	170	o		•	Rece	ived	on ic			e Only
Relinquished by Signature) Date	1400 Received by Signature)	<u>3.3.7</u>	57	0	)			<u>T1</u>			<u></u>	- 	<u>T3</u>
Relinquished by: (Signature) Date		Date	Time					AVG			4		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - C	er C rted unless other arrangements are made. Hazardous samp	Container											or the analysis of the above
	rted unless other arrangements are made. Hazardous sample laboratory with this COC. The liability of the laboratory is								client	t expei	ise. The r	еропт	or the analysis of the above

Chain	of	Custody	

								Chain o	of Cus	tody											Page 2
		Clien	nt Inform	nation				Invoice Information				La	ab Us	e On	nly				TAT		State
Client: N	atador						Compa	mpany: Ensolum LLC Lab WO# Job N								ber		1D	2D 3D	Std	NM CO UT TX
Project:			<u>: 4</u>					s: 3122 National Parks H		E502798 2300300									Х	X	
Project N								ate, Zip: Carlsbad NM, 88	3220				• •								
Address:					· ·			575-988-0055						Ana	lysis	and	Met	hod			EPA Program
<u>City, Stat</u>				88220				agiovengo@ensolum.co	om				1								SDWA CWA RCRA
Phone:							Miscella	ineous:													Compliance Y or N
<u>Email: a</u>	gioveng	go@er	isolum.c	om							8015	8015									PWSID #
					Sam	ple Infor	mation				- Ā	Ā	021	560	300.(	Σ	Ě	hetal			
Time Sampled	Date Sar	mpled	Matrix	No. of Containe				iple ID	Field	Lai Lai	ber/ouo	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
0850	2/27	1/25	Suil	١		F	-531	1-41		11					Ŭ	+	-				
6854			1	1			3	3-4		12	?					4					
6851							31	1-4		13	\$					+					
1455							3	5 -1.5'		14						+					
6468							4	3-2		15						K					
1047							5	1-2		16	,					+					
1049				∐				4-2		17	/	-	_			+			_		
1132								5-2'		18					-	1			_		
1323						_Sh	101	- 0'- 1.S'		19	_   _				-	1				_	
1321						-	<u>v</u>	- 0'-1,5'		1 DI						4					
Addition	al Instr	ruction	ns: Ple	ase CC:	agiovengo	@ensolu	m.com, c	hamilton@ensolum.com	, iestre	lla@er	nsolum.	com,	DSIM	imon	ıs@e	nson	um.c	om, jį	gonzale	ez@en	solum.com
l, (field sam Sampled by	pler), atte: :Hig	st to the ginio Gor	validity and nzalez <u>(A 1</u>	authenti	city of this sam	ple. I am aw MLC	are that tam	pering with or intentionally mislabe	eling the s	ample loc	cation, date	e or tim	ne of co	ollectio	on is co	nsidere	ed frau	d and n	ay be gro	ounds for	r legal action.
	ed by: (Si ng Hi)				nte 168125	Time M/4	5 🕅	eived by: (Signature)		.28.2		)94	45			sample		ceived p	icked in Ice	e at an avg	ust be received on ice the day they are g temp above 0 but less than 6 °C on
Relinquish	helle	e G	onza	les	1:28:25			eived by (Signature)	Dat	<u> 8</u>	-	170	00			Rec	eived	l on ic		$\frac{1}{2}$ $\frac{1}$	se Only I
Relinquish		Je.	<u>H.</u>	<u> </u>		24	na	eved by Signature)	- 3	<u>'31</u>	57	<u>'                                    </u>	)			<u>T1</u>		-	_ 12		<u>T3</u>
Relinquish					ite	Time	Rec	eived by: (Signature)	Dat		Tim				alacti	AVG	Ten	np °C_	<u>4</u>	<del>.</del>	
					queous, O - Oth			ngements are made. Hazardou			Type: g										for the analysis of the above
								COC. The liability of the laborat									e cilei	it expe	nae. me	report	ior the analysis of the above

#### **Chain of Custody**

						Chi	ain of C	Cust	oay											Page 3
<u> </u>	Clie	nt Inform	ation			Invoice Inform	ation				La	ib Us	e On	ly				TAT		State
Client: M	atador_					Company:       Ensolum LLC       Lab WO#       Job Num         Address:       3122 National Parks Hwy       ESO2293       23001									per		1D 2	D 3D S	itd	NM CO UT TX
Project:	Ray State Slo	<u>t 4</u>			Ad	Idress: 3122 National Pa	s: 3122 National Parks Hwy E60229 239									0Z		X		X
Project N	lanager: As	hley Giove	engo		<u>Cit</u>	y, State, Zip: Carlsbad N	<u>M, 8822</u>	0												
	3122 Natio					one: 575-988-0055	_						Ana	lysis	and N	/leth	nod			EPA Program
	e, Zip: Carls		38220		<u>En</u>	nail: agiovengo@ensol	um.com													DWA CWA RCRA
	575-988-005				Mis	scellaneous:														mpliance Y or N
<u>:mail: a</u>	giovengo@e	nsolum.co	<u></u>							015	015							11		mpliance     Y     or     N       WSID #
				- Comm	le Informati					ڇ 🗕	by 8	5	99	0.0	Σ	ř	etals		- H	VUD #
Time Sampled	Date Sampled	Matrix	No. of Containers	Samp		Sample ID		-ield ilter	Lab Numb	Ro/ORO by 8015	GRO/DRO by 8015	8TEX by 8021	VOC by 8260	Chlaride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
340	2/27/25	Seil	1		S	W03-6'-4			21	/		_@	>	0	7	-			T	
409	2/27/25	Soil	1		S	W03-0'-4 W04-0'-4 W05-0'-1	ť		22						7					
	2/27/25		١		S	W05-0'-1	<u>,S`</u>		23						イ	_				
1527	2/27/25	Sril	l		F	= <u>5 23 - 1,5'</u>		_	24		-				+					
								-								_				
											-									
												<b> </b>								
					<u> </u>						-									
								┝		_	-							_}_		
A dallate a	al Instructio			ievense		om, chamilton@ensolun	com io					heim			nsolu		om is			
			_	_		at tampering with or intentionally														
Sampled by	Higinio Go ed by: (Signatu	nzalez Ard	Jeana Date	Hinhlo	Time	Received by: (Signature)		Date		Time	•		-		Sample	requir	ring ther	nal preservati	on must i	be received on ice the day they are
Den	ed by: (Signatu	hle	U2 Date	8125	<u>0945</u> Time	Michelle Gov Received by: Signature)	zales	<b>J</b> . Date	28.25	5 ( Time	994	S			sample subsecu				an avg te b Use	mp above 0 but less than 6 °C on
Wi	ed by: (Signatu	onza		28:15	<u>1600</u> Time	Received by Signature	0	2	.28.3			200			Rece	ived	on ic	$\sim$		
	t.v	<u>k</u> .	2:	2821	<u> 2400</u>	auth	the		<u>3</u> .C		Œ	2			<u>11</u>			<u> </u>		<u> </u>
	ed by: (Signatu		Date		Time	Received by: (Signature)		Date		Time		<u> </u>		nlacti	AVG			<u>4</u> 55, v - V0/	<u></u>	
Sample Mat	rix: S - Soil, Sd - S	olid, 5g - Sluc	after recult	ous, U - Othe	r	r arrangements are made. Ha	ardous sa													the analysis of the above
Note: 290	pies are discard	ieu 14 Udys	anter result	are report	eu uness othe	h this COC. The liability of the	Lai uvus sd	unhies	wan be i	conneu	to che	1.6					. cape			
### **Envirotech Analytical Laboratory**

### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Da	te Received:	03/03/25	07:00	Work Order ID:	E502293
hone:	(972) 371-5200 Da	te Logged In:	02/28/25	16:18	Logged In By:	Noe Soto
Email:		e Date:	03/07/25	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match t	he COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		<u>Commen</u>	ts/Resolution
Sample	Turn Around Time (TAT)					
	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	•					
	a sample cooler received?		Yes			
	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
	e custody/security seals present?		No			
	es, were custody/security seals intact?		NA			
2	the sample received on ice? If yes, the recorded temp is 4°C, i.e.,		Yes			
	Note: Thermal preservation is not required, if samples are rec minutes of sampling	eived w/i 15				
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4</u> °	<u>C</u>			
Sample	Container					
14. Are	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is th	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are	non-VOC samples collected in the correct containers?		Yes			
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
20. Were	e field sample labels filled out with the minimum informa	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>	mrad0	ът.			
	s the COC or field labels indicate the samples were preserved?	rvea?	No Na			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	69	NA No			
		1.5 .	INU			
	nase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?	10	No			
	es, does the COC specify which phase(s) is to be analyzed	17	NA			
	tract Laboratory					
	samples required to get sent to a subcontract laboratory?		No NA			
	a subcontract laboratory specified by the client and if so					



Date

envirotech Inc.

.

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



## APPENDIX E

# NMOCD Correspondence

Released to Imaging: 4/21/2025 3:13:23 PM

From:	Rodgers, Scott, EMNRD
To:	Ashley Giovengo
Cc:	Bratcher, Michael, EMNRD; jason.touchet@matadorresources.com; arsenio.jones@matadorresources.com; Cole Burton; Chad Hamilton
Subject:	RE: [EXTERNAL] Extension Request - Ray State Slot 4 - Incident Number nAPP2417872718
Date:	Tuesday, September 17, 2024 3:27:07 PM
Attachments:	image006.png image007.png image008.png

### [ \*\*EXTERNAL EMAIL\*\*]

Your time extension request is approved. Remediation Due date has been updated to December 20, 2024 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards, Scott

Scott Rodgers ● Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113 505.469.1830 | scott.rodgers@emnrd.nm.gov http://www.emnrd.nm.gov/ocd\_



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, September 17, 2024 3:20 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Ray State Slot 4 - Incident Number nAPP2417872718

From: Ashley Giovengo <agiovengo@ensolum.com</p>
Sent: Tuesday, September 17, 2024 2:20 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>
; Jason Touchet
<jason.touchet@matadorresources.com</p>
; Arsenio Jones <arsenio.jones@matadorresources.com</p>
Cc: Cole Burton <<u>cburton@ensolum.com</u>
; Chad Hamilton <<u>chamilton@ensolum.com</u>
Subject: [EXTERNAL] Extension Request - Ray State Slot 4 - Incident Number nAPP2417872718

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 September 23, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ray State Slot 4 (Site) (Incident Number nAPP2417872718). The release occurred on June 25, 2024, and approximately 18 barrels (bbls) of produced water were release on-pad; 8 bbls were recovered. Ensolum personnel are currently conducting lateral and vertical delineation sampling in accordance with the strictest Closure Criteria per NMOCD Table I. Matador intends to submit a remediation work plan or closure report, after completing excavation/reclamation of the subject matter release and upon receiving final laboratory analytical results from confirmation sampling activities. Matador respectfully requests an extension until December 20, 2024.

Thanks,



Ashley Giovengo Senior Scientist 575-988-0055 Ensolum, LLC

"Your authenticity is your superpower." - Unknown

in f

From:	Rodgers, Scott, EMNRD
To:	Chad Hamilton
Cc:	Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] FW: Extension Request - Matador - Ray State Slot 4 - nAPP2417872718
Date:	Thursday, December 12, 2024 2:28:28 PM
Attachments:	image006.png image007.png image008.png image009.png

### [ \*\*EXTERNAL EMAIL\*\*]

Your time extension request is approved. Remediation Due date has been updated to March 20, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

Scott Rodgers ● Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland NE, Suite B | Albuquerque, NM 87113 505.469.1830 | scott.rodgers@emnrd.nm.gov http://www.emnrd.nm.gov/ocd\_



From: Chad Hamilton <chamilton@ensolum.com>Sent: Thursday, December 12, 2024 1:47 PMTo: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Subject: [EXTERNAL] FW: Extension Request - Matador - Ray State Slot 4 - nAPP2417872718

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

From: Chad Hamilton
Sent: Thursday, December 12, 2024 10:43 AM
To: Enviro, OCD, EMNRD <<u>ocd.enviro@emnrd.nm.gov</u>>; <u>mike.bratcher@emnrd.nm.gov</u>; Wells,
Shelly, EMNRD <<u>Shelly.Wells@emnrd.nm.gov</u>>; <u>Csnow@matadorresources.com</u>; Arsenio Jones
<arsenio.jones@matadorresources.com>; jason.touchet@matadorresources.com
Cc: Ashley Giovengo <<u>agiovengo@ensolum.com</u>>; Cole Burton <<u>cburton@ensolum.com</u>>
Subject: Extension Request - Matador - Ray State Slot 4 - nAPP2417872718

Good Morning,

Matador Production Company (Matador) is requesting an extension of the current deadline of December 20, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ray State Slot 4 (Site) (Incident Number nAPP2417872718). The release occurred on June 26, 2024, and approximately 16 barrels (bbls) of produced water were release on-pad; 8 bbls were recovered. Ensolum personnel have completed lateral and vertical delineation sampling at the Site. After several visits to the Site and multiple attempts to laterally and vertically delineate in accordance with New Mexico Oil Conservation Division (NMOCD) Table I criteria, an investigation into naturally occurring chloride began. Ensolum personnel completed 5 boreholes in undisturbed areas off-pad to detect for the presence or absence of naturally occurring chloride at the Site. A variance request for background chloride was submitted on September 24, 2024, and was approved by Scott Rodgers on September 27, 2024. Ensolum conducted a meeting on behalf of Matador with New Mexico Oil Conservation Division (NMOCD) on December 11, 2024, to discuss the approved background chloride variance. The Ray State pad was cut from an existing hill where the top 2 feet of topsoil was removed, and the remaining caliche layers were used to build the pad. The pad was built on a grade running southeast that is 8 to 16 feet lower in elevation than the hill. Laboratory analytical results from background sample locations at the Site indicated that the caliche layers contained concentrations of naturally occurring chloride at depths ranging from 4 feet below ground surface (bgs) to 15 feet bgs. Due to the difference in elevation at which the background samples were collected (8 feet above pad surface) and the current elevation of the Ray State Pad (8 feet to 16 feet below the background sample locations), Ensolum is requesting an adjusted background chloride variance based on analytical results from the caliche layers or the chloride containing layers that the pad was constructed from. Matador intends to submit a remediation work plan or closure report, after NMOCD has had a chance to reevaluate the new background chloride variance request and upon completion of excavation/remediation activities at the Site. Matador respectfully requests a 90-day extension until March 20, 2024.

Thanks,



From:	Rodgers, Scott, EMNRD
То:	<u>Chad Hamilton;</u> <u>Bratcher, Michael, EMNRD;</u> jason.touchet@matadorresources.com; <u>Arsenio Jones;</u> <u>Csnow@matadorresources.com</u>
Cc:	Ashley Giovengo: Dan Moir
Subject:	RE: [EXTERNAL] Matador - Ray State Slot 4 - Incident Number nAPP2417872718 - Background Chloride Variance Request
Date:	Tuesday, January 28, 2025 3:04:54 PM
Attachments:	image006.png image007.png image008.png image009.png

### [ \*\*EXTERNAL EMAIL\*\*]

Good Afternoon,

The background chloride variance request is approved. The variance request for 400' floor and 200' sidewall confirmation sampling is also approved. A copy of this approved variance request will be added into the incident file.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me at your convenience.

Thank you, Scott

**Scott Rodgers** • Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland NE, Suite B | Albuquerque, NM 87113 505.469.1830 | <u>scott.rodgers@emnrd.nm.gov</u> <u>http://www.emnrd.nm.gov/ocd</u>



From: Chad Hamilton <chamilton@ensolum.com>

#### Sent: Wednesday, December 18, 2024 8:29 AM

To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>; jason.touchet@matadorresources.com; Arsenio Jones
<arsenio.jones@matadorresources.com>; Csnow@matadorresources.com
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Dan Moir <dmoir@ensolum.com>
Subject: [EXTERNAL] Matador - Ray State Slot 4 - Incident Number nAPP2417872718 - Background Chloride Variance Request

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

#### Hello,

Matador Production Company (Matador) is requesting a *background chloride variance* at the Ray State Slot 4 (Site) (Incident Number nAPP2417872718). On June 26, 2024, a minion tank developed a leak resulting in the release of approximately 16 barrels (bbls) of produced water; 8 bbls were recovered from the release area. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on June 26, 2024, via web portal. The release occurred on a new well pad (constructed on April 2024) during drilling and fracking operations. The well pad was constructed through the cut of a hill down to approximately 16 feet on the northwest side and filled in the southeastern portion to level the site (see attached photographs for perspective). Production on the is Site began shortly after this release. This pad is in the vicinity of the Pecos River, which has documented elevated chloride concentrations in the water as well as the surrounding land due to floods and paleochannels cut parallel to river and naturally backfilled over time.

A desktop review for potential site receptors has been completed for this Site and according to the New Mexico Office of the State Engineer (NMOSE), the closest depth to groundwater measurement is NMOSE well C-03615 POD1 with a reported depth to groundwater measurement of 36 feet below ground surface (bgs); the well is 0.64 miles from the Site and the date of the last recorded measurement was on May 4, 2013. The site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The closest significant watercourse is an intermittent Fresh Water Emergent Wetland located approximately 420 feet northeast of the Site. The Site is not underlain by unstable geology (medium potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Figure 1 depicts sensitive receptors applicable to the Site. Based on the results of the desktop review and a readjustment of the approved chloride variance request, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX 100 mg/kg GRO/DRO/ORO and 600 mg/kg chloride.

On September 5, 2024, September 6, 2024, and September 19, 2024, Ensolum personnel advanced five boreholes (BG03 through BG07, Figure 2) from areas that had not been previously disturbed by oil and gas operations at depths ranging from ground surface to 18 feet bgs at the Site (See Figure 2). Laboratory analytical results indicated the presence of naturally occurring chloride concentrations in soil exceeding 600 parts per million (ppm) (also measured as mg/kg) in all five of the undisturbed areas, with a maximum chloride concentration of 2,290 mg/kg detected at BG07. When detected, the elevated concentrations generally occurred within the caliche layer beginning at approximately 3 feet bgs to 15 feet bgs, which was observed below silty sand topsoil. (See Table 2).

Naturally occurring chloride concentrations ranging from 81.6 mg/kg to 2,290 mg/kg off pad and what appears to be naturally occurring chlorides beneath the well pad at concentrations ranging from 45.5 mg/kg to 2,870 mg/kg has been documented. When reviewing onsite pothole analytical data, demarcations of chloride impacts versus naturally occurring concentrations can be observed through correlation of TPH impacts and/or a precipitous drop in chloride concentrations with often times an increase that does not appear to be related to the release, especially based on the freshness of the release, volume unrecovered (8 bbls), and newness of the well pad (April 2024). Table 2 depicts the demarcation lines in the applicable potholes for what appears to be impacted versus naturally occurring chloride concentrations.

Based on assessments of naturally occurring chloride concentrations beneath and adjacent to the Site, Ensolum, on behalf of Matador, is proposing an adjusted Closure Criteria and sampling variance be considered for remediation of the Site, which includes the following:

- Vertical delineation to meet a chloride variance of 1,118 mg/kg; this is an average concentration of all sample depths collected within the background sampling locations.
- The original release extent detected unnaturally high chloride concentrations (>2,760 mg/kg) and associated TPH impacts. Based on Table 2, impacted soil containing chloride range in concentrations from 2,540 mg/kg to 25,700 mg/kg. Excavation of TPH and chloride impacted soil will be completed with the removal of TPH impacts to 100 mg/kg and chloride based on the demarcation lines in Table 2. In general, excavation of impacted soil is anticipated to range from 0.5 feet to 3 feet bgs based on field and laboratory analytical data.
- Floor confirmation samples will be collected on a variance frequency of one composite sample for every 400 square feet due to the high variability of naturally occurring chloride concentrations detected on and off pad. The confirmation samples will verify impacted soil in the sample locations has been removed to below the corresponding elevated chloride concentration and residual concentrations are in range of what has been observed/documented on and off pad. In general, excavation of impacted soil is anticipated to range from 0.5 feet to 3 feet bgs and confirmation samples will confirmation chloride is below concentrations ranges based on field and laboratory analytical data with demarcations.
- Sidewall confirmation samples will be collected on a frequency of one composite sample for every 200 square feet of sidewall and will be compared to the sample lateral extent concentration of 1,690 mg/kg for chloride and 100 mg/kg for TPH. Sidewall confirmation samples will also be used to define the lateral extent of the release area in lieu of surface lateral delineation.

Matador is requesting this background chloride and sampling variance in order to

remediate/excavate soil in the release area that exceed naturally occurring chloride concentrations. Matador will submit a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the regional geology with documented elevated chloride levels at or near the Site, Matador believes this *variance request* will provide equal or better protection of public health and the environment. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2425041943).

Thanks,



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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

Page 1408e of 432

QUESTIONS

Action 358993

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	358993
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

#### QUESTIONS

Location of Release Source

Please answer all the questions in this group.		
Site Name	Ray State Slot 4	
Date Release Discovered	06/25/2024	
Surface Owner	Private	

#### Incident Details

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

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 16 BBL   Recovered: 8 BBL   Lost: 8 BBL.
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.

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	358993
	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	No		
Reasons why this would be considered a submission for a notification of a major release	Unavailable.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.			

Initial Response			
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.			
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	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.			

Released to Imaging: 4/21/2025 3:13:23 PM

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

ACKNOWLEDGMENTS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	358993
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### ACKNOWLEDGMENTS

$\overline{\lor}$	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
M	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.
M	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.

Released to Imaging: 4/21/2025 3:13:23 PM

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	358993
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### CONDITIONS

Created By	Condition	Condition Date
c_talley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C- 141.	6/26/2024

Saturated Soil (inches) 0.5 5420
0.5
5420
Standing fluids
inches of standing fluid
0
bbl estimate of standing fluids
0.0
barrels recovered (if known) 8
<mark>ہ</mark> ا
Soil type
pad caliche
Spill type
produced water
Barrel estimate in soil
8.0
Barrel estimate (standing fluids/ recovered+in soil) 16.0

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

Page 1413e of 432 QUESTIONS

Action 360021

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	360021
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417872718
Incident Name	NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Well	[30-015-45958] DR SCRIVNER FEDERAL COM #207H

#### Location of Release Source

Please answer all the questions in this group.		
Site Name	Ray State Slot 4	
Date Release Discovered	06/25/2024	
Surface Owner	Private	

#### Incident Details

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

Nature and Volume of Release Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Crude Oil Released (bbls) Details Not answered. Cause: Equipment Failure | Tank (Any) | Produced Water | Released: 16 BBL | Recovered: 8 Produced Water Released (bbls) Details BBL | Lost: 8 BBL 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	360021
	Action Type:
	[C, 141] Initial C, 141 (C, 141 y Initial)

QUESTIONS

Initial Response

The source of the release has been stopped

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

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 or 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.

True

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

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

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com
	Date: 07/01/2024

QUESTIONS, Page 2

Action 360021

Page 1414 of 432

Released to Imaging: 4/21/2025 3:13523PPM

District I

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

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

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

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	360021
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the elease 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.

#### 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.

Page 1415eof 432

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	360021
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### CONDITIONS

Created By		Condition Date
scott.rodgers	None	7/1/2024

General Information Phone: (505) 629-6116

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

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

Page1417eof 432 QUESTIONS

Action 433306

QUESTIONS	
	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	433306
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417872718
Incident Name	NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-45958] DR SCRIVNER FEDERAL COM #207H

Location of Release Source	
Site Name	RAY STATE SLOT 4
Date Release Discovered	06/25/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	22,700
What is the estimated number of samples that will be gathered	70
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD.
Please provide any information necessary for navigation to sampling site	32.2524342,-104.034083

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	433306
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS		
Created By		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.	2/19/2025

CONDITIONS

Page 1418 of 432

General Information Phone: (505) 629-6116

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

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

Page 419 of 432

Action 433307

 QUESTIONS

 Operator:
 MATADOR PRODUCTION COMPANY
 One Lincoln Centre
 228937

 One Lincoln Centre
 Action Number:
 433307

 Dallas, TX 75240
 Action Type:
 [NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417872718
Incident Name	NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-45958] DR SCRIVNER FEDERAL COM #207H

Location of Release Source	e

Site Name	RAY STATE SLOT 4
Date Release Discovered	06/25/2024
Surface Owner	Private

#### Sampling Event General Information

Please answer all the questions in this group.		
What is the sampling surface area in square feet	22,700	
What is the estimated number of samples that will be gathered	70	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2025	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD.	
Please provide any information necessary for navigation to sampling site	32.2524342,-104.034083	

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	433307
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS		
Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/19/2025

CONDITIONS

General Information Phone: (505) 629-6116

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

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

Page 142 Jeof 432 QUESTIONS

Action 433308

QUESTIONS	
Operator: MATADOR PRODUCTION COMPANY	OGRID: 228937
	Action Number: 433308
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417872718
Incident Name	NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-45958] DR SCRIVNER FEDERAL COM #207H

Location of Release Source	
Site Name	RAY STATE SLOT 4
Date Release Discovered	06/25/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	22,700
What is the estimated number of samples that will be gathered	70
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/25/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD.
Please provide any information necessary for navigation to sampling site	32.2524342,-104.034083

General Information Phone: (505) 629-6116

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

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

CONDITIONS

0	Operator:	OGRID:
	MATADOR PRODUCTION COMPANY	228937
	One Lincoln Centre	Action Number:
	Dallas, TX 75240	433308
		Action Type:
		[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS		
Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/19/2025

CONDITIONS

General Information Phone: (505) 629-6116

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

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

Page 423 of 432

Action 433309

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	433309
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417872718
Incident Name	NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-45958] DR SCRIVNER FEDERAL COM #207H

Location	οτ	Release	Source	

Site Name	RAY STATE SLOT 4
Date Release Discovered	06/25/2024
Surface Owner	Private

#### Sampling Event General Information

Please answer all the questions in this group.					
What is the sampling surface area in square feet	22,700				
What is the estimated number of samples that will be gathered	70				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/24/2025				
Time sampling will commence	09:00 AM				
Please provide any information necessary for observers to contact samplers	Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD.				
Please provide any information necessary for navigation to sampling site	32.2524342,-104.034083				

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	433309
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS			
Created By	Condition	Condition Date	
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/19/2025	

CONDITIONS

General Information Phone: (505) 629-6116

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

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

Page 425 of 432

QUESTIONS

Action 444217

QUESTIONS
-----------

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444217
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites			
Incident ID (n#)	nAPP2417872718		
Incident Name	NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958		
Incident Type	Produced Water Release		
Incident Status	Remediation Closure Report Received		
Incident Well	[30-015-45958] DR SCRIVNER FEDERAL COM #207H		

#### Location of Release Source

Please a	answer	all	the	questions	in	this	group.	

Site Name	RAY STATE SLOT 4
Date Release Discovered	06/25/2024
Surface Owner	Private

#### Incident Details

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

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 16 BBL   Recovered: 8 BBL   Lost: 8 BBL.			
Is the concentration of chloride in the produced water >10,000 mg/l	Yes			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Not answered.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.			

General Information Phone: (505) 629-6116

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

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

Page 426 of 432

QUESTIONS, Page 2

Action 444217

QUESTIONS	(continued)
	(

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444217
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
actions to date in the follow-up C-141 submission. If remedial efforts have been successfully complete	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	
Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure e	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 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: 03/20/2025	

General Information Phone: (505) 629-6116

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

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

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444217
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Between 26 and 50 (ft.)
NM OSE iWaters Database Search
No
nd the following surface areas:
Between 300 and 500 (ft.)
Between 1 and 5 (mi.)
Between 1 and 5 (mi.)
Between 1 and 5 (mi.)
Greater than 5 (mi.)
Between 1 and 5 (mi.)
Between 300 and 500 (ft.)
Greater than 5 (mi.)
Between 1 and 5 (mi.)
Medium
Between 300 and 500 (ft.)
No

#### Remediation Plan

appropriate district office no later than 90 days after the release discovery date.	
Yes	
sociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Yes	
No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
25700	
2385	
545	
0	
0	
forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
02/24/2025	
02/27/2025	
02/27/2025	
0	
0	
22400	
1580	
ne 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.

Page 427 of 432

General Information Phone: (505) 629-6116

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

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

Page	<i>428</i>	of 4	32
0			

QUESTIONS, Page 4

Action 444217

QUESTIONS (continued)	
Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937 Action Number: 444217
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land LLC
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	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.

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: 03/20/2025
TH 0.00	

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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS	(continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444217
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

.

General Information Phone: (505) 629-6116

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

One Lincoln Centre

Dallas, TX 75240

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

**QUESTIONS** (continued)

QUESTIONS, Page 6

Action 444217

Page 430 of 432

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. Requesting a remediation closure approval with this submission Yes Have the lateral and vertical extents of contamination been fully delineated Yes 

The re should be in the form of a comn ain of custody documents of final s

I here operators are required to rep e of a C-141 report by the O groundwater, surface wate er federal, state, or nditions that existed local prior te.

	Name: Jason Touchet
I hereby agree and sign off to the above statement	Title: EHS Field Rep
Thereby agree and sign on to the above statement	Email: jason.touchet@matadorresources.com
	Date: 03/20/2025

MATADOR PRODUCTION COMPANY

OGRID 228937 Action Number: 444217 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Operator

Sampling Event Information	
Last sampling notification (C-141N) recorded	433306
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2025
What was the (estimated) number of samples that were to be gathered	70
What was the sampling surface area in square feet	22700

Remediation Closure Request

Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	22400
What was the total volume (cubic yards) remediated	1580
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	22400
What was the total volume (in cubic yards) reclaimed	1580
Summarize any additional remediation activities not included by answers (above)	N/A
he responsible party must attach information demonstrating they have complied with all applicable o omprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field r nal sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.	
hereby certify that the information given above is true and complete to the best of my loop report and/or file certain release notifications and perform corrective actions for release OCD does not relieve the operator of liability should their operations have failed to a ater, human health or the environment. In addition, OCD acceptance of a C-141 report ical laws and/or regulations. The responsible party acknowledges they must substantiarior to the release or their final land use in accordance with 19.15.29.13 NMAC including	ses which may endanger public health or the environment. The acceptance idequately investigate and remediate contamination that pose a threat to g i does not relieve the operator of responsibility for compliance with any othe ally restore, reclaim, and re-vegetate the impacted surface area to the cor

General Information Phone: (505) 629-6116

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

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

**QUESTIONS** (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444217
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	

QUESTIONS	
Reclamation	Report

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

QUESTIONS, Page 7

Action 444217

Page 431 of 432

General Information Phone: (505) 629-6116

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

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

CONDITIONS
------------

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444217
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS		
Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	4/21/2025

## CONDITIONS

Action 444217

Page 432 of 432