



August 21, 2024

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  
Airstrip Fee Com 1H 4" ROW  
Incident Number nAPP2413925956  
Lea 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 Airstrip Fee Com 1H 4" ROW (Site). The Site is located in Unit O, Section 07, Township 19 South, Range 35 East, in Lea County, New Mexico (32.6679748°, -103.4953184°) and is associated with oil and gas exploration and production operations on Private Land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sampling 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 nAPP2413925956.

## BACKGROUND

On May 17, 2024, a produced water pipeline developed a leak, which resulted in the release of approximately 61 barrels (bbls) of produced water onto an off-pad area north of the caliche pad; none of the release produced water liquids were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on May 18, 2024, and the release was subsequently assigned Incident Number nAPP2413925956. Matador submitted an initial C-141 application (Form C-141) on August 07, 2024.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, L 14208 POD1, located approximately 1,944 feet east of the Site. The well had a reported depth to groundwater greater than 78 feet below ground surface (bgs) and a total

depth of 78 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 2,886 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 (low 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

## **SITE ASSESSMENT ACTIVITIES**

On May 17, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

## **DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES**

On May 23, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. Five delineation soil samples (SS01 through SS05) were collected from around the release extent at ground surface to assess the lateral extent of release. Four boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release. Boreholes (BH01 through BH04) were advanced to a depth of 2 feet bgs in boreholes BH01 and BH03 and 1-foot bgs in boreholes BH02 and BH02. Discrete delineation soil samples were collected from each borehole and field screened for chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-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- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Beginning on July 30, 2024, waste-containing soil was excavated from the off-pad spill area as indicated by visible staining, field screening activities, and laboratory analytical results from delineation soil samples. Excavation activities were performed using a trackhoe and transport vehicles. To direct excavation activities, Ensolum personnel screened soil for chloride. Borehole (BH01) was also advanced to a depth of 11 feet bgs via trackhoe to vertically delineate the release to the strictest Closure Criteria.

Following the removal of waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 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 FS31) were collected from the floor of the excavation at depths ranging from 1.5 feet to 4 feet bgs. Confirmation sidewall soil samples (SW01 through SW11) were collected at depths ranging from ground surface to 4 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 6,200 square feet. A total of approximately 803 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS05), collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the reclamation requirement. Laboratory analytical results indicated that chloride concentrations exceeded the Site Closure Criteria at ground surface in boreholes BH01 and BH03. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 through BH04 indicated all COC concentrations were in compliance with the Site Closure Criteria and with the strictest criteria at a depth of 11 feet bgs in borehole BH01, 1-foot bgs in boreholes BH02 and BH04, and 2 feet bgs in borehole BH03.

Laboratory analytical results for excavation floor soil samples (FS01 through FS31) indicated all COC concentrations were in compliance with the Site Closure Criteria at depth ranging from 1.5 feet to 4 feet bgs and with the reclamation requirement. Laboratory analytical results for confirmation side wall samples (SW01 through SW11) indicated that COC concentrations were all in compliance with the reclamation requirement. Laboratory analytical results are summarized in Tables 1, 2, and 3 and the complete laboratory analytical reports are included as Appendix D.

## CLOSURE REQUEST

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I by delineation soil samples (SS01 through SS05), collected at ground surface, and vertically by boreholes (BH01 through BH04), collected at depths between 1-foot and 11 bgs. Excavation of the waste-containing soil area off pad was completed, and excavation floor samples (FS01 through FS31), collected at depths ranging from 1.5 feet to 4 feet bgs, and confirmation sidewall soil samples (SW01 through SW11), collected from ground surface to 4-feet bgs, were all in compliance with the Site Closure Criteria and with the reclamation requirement.

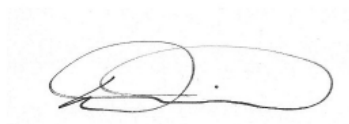
Based on the remedial actions completed to date and a depth to groundwater greater than 78 feet bgs, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2413925956.

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

Sincerely,  
**Ensolum, LLC**



Ashley Giovengo  
Senior Scientist



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

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Floor Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Email Correspondence





FIGURES









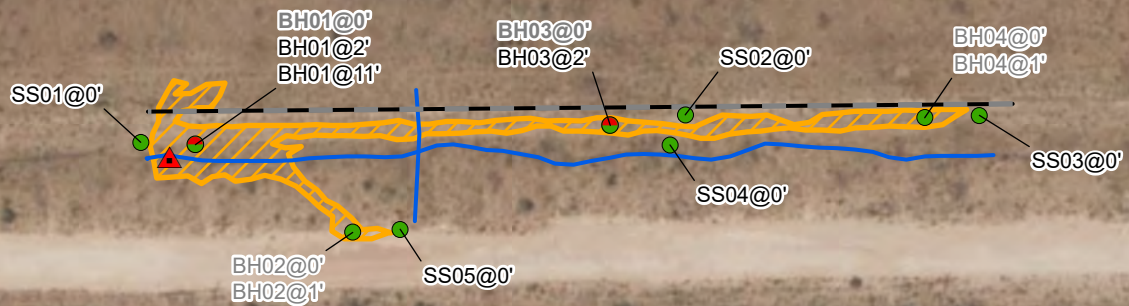
Unit O, Section 07, Township 19S, Range 35E  
Lea County, New Mexico

1



## Legend

-  Point of Release
-  Delineation Soil Sample in Compliance with NMOCD Closure Criteria
-  Delineation Soil Sample with Concentrations Formerly Exceeding Closure Criteria
-  Oil and Gas Utility Pipeline
-  Water Utility Line
-  Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface  
 Concentrations in **bold** exceed the NMOCD Table I  
 Closure Criteria or reclamation standard where applicable.  
 Grey text represents samples that have been excavated.

0 100 200  
 Feet

Source:  
 Bing Maps



## Delineation Soil Sample Locations

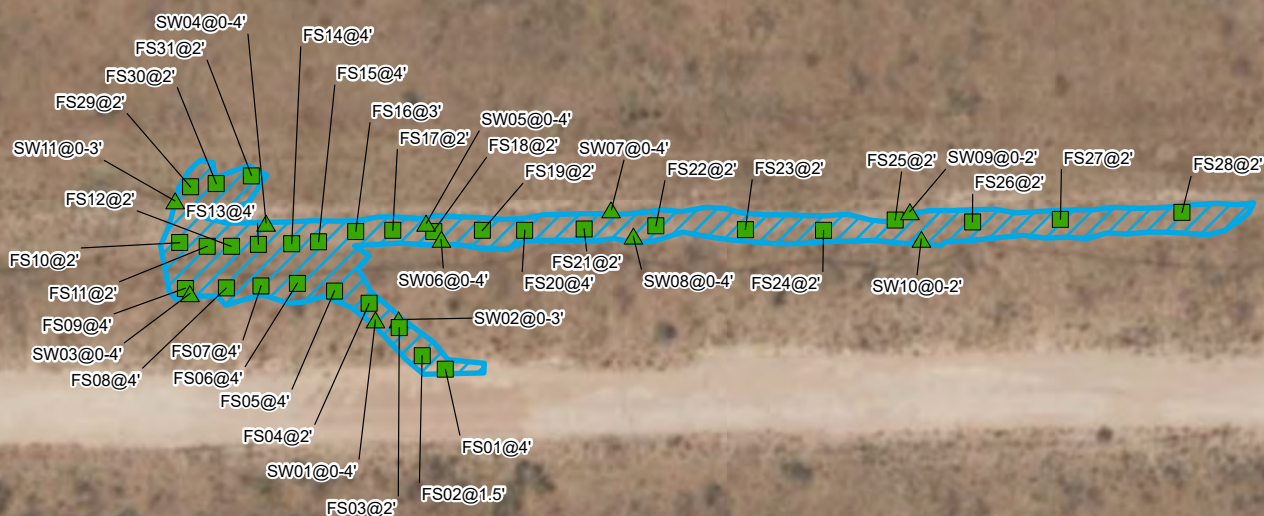
Matador Production Company  
 Airstrip Fee Com 1H 4" ROW  
 Incident Number: nAPP2413925956  
 Unit O, Section 07, Township 19S, Range 35E  
 Lea County, New Mexico

FIGURE  
 2



**Legend**

- Confirmation Floor  
Sample in Compliance  
with Closure Criteria
- ▲ Confirmation Sidewall  
Sample in Compliance  
with Closure Criteria
- ▨ Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.

0 15 30 60 90 120  
Feet

Sources: Environmental Systems Research Institute (ESRI)



## Confirmation Soil Sample Locations

Matador Production Company  
Airstrip Fee Com 1H 4 ROW  
Incident Number: nAPP2413925956  
O-7-19S-35E  
Lea County, New Mexico

**FIGURE**

**3**



TABLES

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Airstrip Fee Com 1H 4" ROW  
 Matador Production Company  
 Lea 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	1,000	2,500	10,000
Delineation Soil Samples										
SS01	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS02	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS03	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS04	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS05	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH01	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	16,100
BH01	5/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	3,700
BH01	8/6/2024	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	445
BH02	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH02	5/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	22.3
BH03	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	28,800
BH03	5/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	114
BH04	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	108
BH04	5/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes





**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Airstrip Fee Com 1H 4" ROW  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS01	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.5
FS02	8/1/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	283
FS03	8/1/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS04	8/1/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	205
FS05	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	862
FS06	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	573
FS07	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,550
FS08	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,830
FS09	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,110
FS10	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,430
FS11	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,370
FS12	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,280
FS13	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,600
FS14	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	852
FS15	8/2/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
FS16	8/2/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
FS17	8/2/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

**Notes:**

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Airstrip Fee Com 1H 4" ROW  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS18	8/2/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.9
FS19	8/2/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	176
FS20	8/5/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	108
FS21	8/5/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	210
FS22	8/5/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	138
FS23	8/5/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	178
FS24	8/5/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	181
FS25	8/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	381
FS26	8/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	48.3
FS27	8/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	112
FS28	8/6/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	132
FS29	8/1/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	27.4
FS30	8/1/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.5
FS31	8/1/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

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**TABLE 3**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Airstrip Fee Com 1H 4" ROW  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Sidewall Soil Samples</b>										
SW01	8/1/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW02	8/1/2024	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW03	8/2/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW04	8/2/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	76.1
SW05	8/2/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW06	8/2/2024	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW07	8/6/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	581
SW08	8/2/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW09	8/6/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	209
SW10	8/6/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW11	8/6/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

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GRO: Gasoline Range Organics

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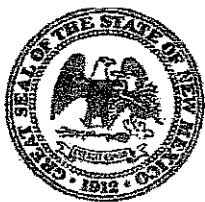
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



## APPENDIX A

### Well Log and Record

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) <b>POD 1</b>			OSE FILE NUMBER(S) <b>L-14208</b>			
	WELL OWNER NAME(S) <b>Snyder Ranches</b>			PHONE (OPTIONAL) <b>575 706-4498</b>			
	WELL OWNER MAILING ADDRESS <b>P O Box 1322</b>			CITY STATE ZIP <b>Carlsbad NM 88220</b>			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE <b>32</b> LONGITUDE <b>103</b>	MINUTES <b>40</b> <b>29</b>	SECONDS <b>3.9 N</b> <b>20.4 W</b>	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							
2. DRILLING & CASING INFORMATION	LICENSE NUMBER <b>WD1626</b>		NAME OF LICENSED DRILLER <b>Roy Taylor</b>		NAME OF WELL DRILLING COMPANY <b>Roy Taylor Drilling</b>		
	DRILLING STARTED <b>10/5/16</b>	DRILLING ENDED <b>10/5/16</b>	DEPTH OF COMPLETED WELL (FT) <b>78'</b>	BORE HOLE DEPTH (FT) <b>78'</b>	DEPTH WATER FIRST ENCOUNTERED (FT) <b>NA</b>		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) <b>NA</b>		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)
				<b>Plugged well</b>			
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				<b>Plugged well</b>			

FOR OSE INTERNAL USE

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

FILE NUMBER **L-14208** POD NUMBER **1** TRN NUMBER **593145**

LOCATION **2-2-2 19S.35E.18** **Exploratory**

#### 4. HYDROGEOLOGIC LOG OF WELL

#### 5. TEST; RIG SUPERVISION

## 6. SIGNATURE

FOR USE INTERNAL USE		WR-26 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	L-14208	POD NUMBER	1
		TRN NUMBER	593145





## APPENDIX B

### Photographic Log

**Photographic Log**

Matador Production Company  
Airstrip Fee Com 1H 4" ROW  
Incident Number nAPP2413925956



Photograph 1  
Description: Initial Release  
View: Northeast

Date: 05/17/2024



Photograph 2  
Description: Initial Release  
View: East

Date: 05/17/2024



Photograph 3  
Description: Initial Release  
View: East

Date: 05/17/2024



Photograph 4  
Description: Initial Release  
View: East

Date: 05/17/2024





# Photographic Log

Matador Production Company

Airstrip Fee Com 1H 4" ROW

Incident Number nAPP2413925956



Photograph 5

Date: 05/23/2024

Description: Delineation Sampling

View: Southwest



Photograph 6

Date: 05/23/2024

Description: Delineation Sampling

View: South



Photograph 7

Date: 05/23/2024

Description: Delineation Sampling

View: East



Photograph 8

Date: 05/23/2024

Description: Delineation Sampling

View: West





# Photographic Log

Matador Production Company

Airstrip Fee Com 1H 4" ROW

Incident Number nAPP2413925956



Photograph 9  
Description: Hydrovac  
View: East

Date: 07/30/2024



Photograph 10  
Description: Hydrovac  
View: North

Date: 07/30/2024



Photograph 11  
Description: Hydrovac  
View: Southeast

Date: 07/31/2024



Photograph 12  
Description: Excavation Activities  
View: Southwest

Date: 07/31/2024





# Photographic Log

Matador Production Company  
Airstrip Fee Com 1H 4" ROW  
Incident Number nAPP2413925956



Photograph 13 Date: 07/31/2024  
Description: Excavation Activities  
View: Southwest



Photograph 14 Date: 08/01/2024  
Description: Excavation Activities  
View: West



Photograph 15 Date: 08/01/2024  
Description: Excavation Activities  
View: West



Photograph 16 Date: 08/01/2024  
Description: Excavation Activities  
View: Southeast





### Photographic Log

Matador Production Company  
Airstrip Fee Com 1H 4" ROW  
Incident Number nAPP2413925956



Photograph 17 Date: 08/01/2024  
Description: Excavation Activities  
View: West



Photograph 18 Date: 08/02/2024  
Description: Excavation Activities  
View: East



Photograph 19 Date: 08/02/2024  
Description: Excavation Activities  
View: Northeast



Photograph 20 Date: 08/05/2024  
Description: Excavation Activities  
View: Southwest








## APPENDIX C


### Lithologic Soil Sampling Logs

---

								Sample Name: BH01		Date: 8/6/2024	
								Site Name: Airstrip Fee Com #1H ROW			
								Incident Number: nAPP2413925956			
								Job Number: 03A2270049			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Brandon Deal		Method: Trackhoe	
Coordinates: 32.668008, -103.495227								Hole Diameter: 2'		Total Depth: 11'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH01		0		Brown Sand, Dry, Non Cohesive, Non Plastic			
D	>3,617		N	BH01		1	SW				
D	>3,617		N	BH01		2	CCHE	Caliche with sand, White, Small Gravel, Dry, Non Cohesive, Non Plastic			
D			N	BH01		3					
D			N	BH01		4					
D			N	BH01		5					
D			N	BH01		6					
D			N	BH01		7					
D	>3,617		N	BH01		8	SW	Tan Sand with gravel, Small Gravel, Dry, Non Cohesive, Non Plastic			
D	2,380		N	BH01		9					
D	1,159		N	BH01		10					
D	347		N	BH01		11					
Total Depth = 11 Feet bgs											

								Sample Name: BH02		Date: 5/23/2024	
								Site Name: Airstrip Fee Com #1H ROW			
								Incident Number: nAPP2413925956			
								Job Number: 03A2270049			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Omar Hamdy		Method: Hand Auger	
Coordinates: 32.667879, -103.494963								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M				BH02	0	0	GW	Brown Sand, Small gravel, Moist, Non Cohesive, Non Plastic			
M	<168			BH02	1	1					
Total Depth = 1 Foot bgs											

								Sample Name: BH03		Date: 5/23/2024	
								Site Name: Airstrip Fee Com #1H ROW			
								Incident Number: nAPP2413925956			
								Job Number: 03A2270049			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Omar Hamdy		Method: Hand Auger	
Coordinates: 32.668027, -103.494524								Hole Diameter: 3"		Total Depth: 2	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH03	0	0		Brown Sand, Small Gravel, Moist, Non Cohesive, Non Plastic			
D	610		N	BH03	1	1	GW				
D	<168		N	BH03	2	2					
Total Depth = 2 Feet bgs											

								Sample Name: BH04		Date: 5/23/2024	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Site Name: Airstrip Fee Com #1H ROW			
								Incident Number: nAPP2413925956			
								Job Number: 03A2270049			
Coordinates: 32.668031, -103.493992								Logged By: Omar Hamdy		Method: Hand Auger	
Hole Diameter: 3"								Total Depth: 2			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH04	0	0	GW	Brown Sand, Small Gravel, Moist, Non Cohesive, Non Plastic			
D	<168		N	BH04	1	1					
Total Depth = 1 Foot bgs											



## APPENDIX D

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

---



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Airship Fee Com #1H ROW

Work Order: E405367

Job Number: 23003-0002

Received: 5/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/6/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/6/24

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



Project Name: Airship Fee Com #1H ROW  
Workorder: E405367  
Date Received: 5/28/2024 10:00:41AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2024 10:00:41AM, under the Project Name: Airship Fee Com #1H ROW.

The analytical test results summarized in this report with the Project Name: Airship Fee Com #1H ROW apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
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Field Offices:

**Southern New Mexico Area**

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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/06/24 12:34
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS 01 - 0'	E405367-01A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
SS 02 - 0'	E405367-02A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
SS 03 - 0'	E405367-03A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
SS 04 - 0'	E405367-04A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
SS 05 - 0'	E405367-05A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH 01 - 2'	E405367-06A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH 02 - 1'	E405367-07A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH 03 - 2'	E405367-08A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH 04 - 1'	E405367-09A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH 01 - 0'	E405367-10A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.





## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/6/2024 12:34:04PM

SS 01 - 0'

E405367-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	93.6 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	93.6 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2423023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	105 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423015
Chloride	ND	20.0	1	06/03/24	06/03/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/6/2024 12:34:04PM

SS 02 - 0'

E405367-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.0 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.0 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2423023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	97.7 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423015
Chloride	ND	20.0	1	06/03/24	06/03/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/6/2024 12:34:04PM

SS 03 - 0'

E405367-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.0 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.0 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2423023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	105 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423015
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 12:34:04PM
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SS 04 - 0'

E405367-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	95.0 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	95.0 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2423023	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	94.0 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2423015	
Chloride	ND	20.0	1	06/03/24	06/04/24	





## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/6/2024 12:34:04PM

SS 05 - 0'

E405367-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	95.2 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	95.2 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2423023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	99.6 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423015
Chloride	ND	20.0	1	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 12:34:04PM
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BH 01 - 2'

E405367-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.4 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.4 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2423023	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	98.6 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2423015	
Chloride	3700	40.0	2	06/03/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 12:34:04PM
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BH 02 - 1'

E405367-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	95.2 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	95.2 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2423023	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	103 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2423015	
Chloride	22.3	20.0	1	06/03/24	06/04/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/6/2024 12:34:04PM

BH 03 - 2'

E405367-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.1 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.1 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2423023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	76.2 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423015
Chloride	114	20.0	1	06/03/24	06/04/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/6/2024 12:34:04PM

BH 04 - 1'

E405367-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	93.7 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	93.7 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2423023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	91.7 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423015
Chloride	ND	20.0	1	06/03/24	06/04/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 12:34:04PM
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BH 01 - 0'  
E405367-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.2 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		05/30/24	06/03/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/30/24	06/03/24	
Surrogate: Toluene-d8	94.2 %	70-130		05/30/24	06/03/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2423023	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane	94.0 %	50-200		06/03/24	06/05/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2423015	
Chloride	16100	400	20	06/03/24	06/04/24	



Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 12:34:04PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2422075-BLK1)

Prepared: 05/30/24 Analyzed: 06/03/24

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	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			

LCS (2422075-BS1)

Prepared: 05/30/24 Analyzed: 06/05/24

Benzene	2.95	0.0250	2.50		118	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
Toluene	2.49	0.0250	2.50		99.4	70-130			
o-Xylene	2.25	0.0250	2.50		90.2	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.7	70-130			
Total Xylenes	6.94	0.0250	7.50		92.5	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.461		0.500		92.2	70-130			

LCS Dup (2422075-BSD1)

Prepared: 05/30/24 Analyzed: 06/03/24

Benzene	2.69	0.0250	2.50		108	70-130	9.30	23	
Ethylbenzene	2.65	0.0250	2.50		106	70-130	2.49	27	
Toluene	2.50	0.0250	2.50		100	70-130	0.622	24	
o-Xylene	2.39	0.0250	2.50		95.7	70-130	5.92	27	
p,m-Xylene	4.97	0.0500	5.00		99.5	70-130	5.97	27	
Total Xylenes	7.36	0.0250	7.50		98.2	70-130	5.96	27	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 12:34:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422075-BLK1) Prepared: 05/30/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			

LCS (2422075-BS2) Prepared: 05/30/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS Dup (2422075-BSD2) Prepared: 05/30/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130	13.3	20	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 12:34:04PM

Nonhalogenated Organics by 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
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Blank (2423023-BLK1)					Prepared: 06/03/24 Analyzed: 06/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS (2423023-BS1)					Prepared: 06/03/24 Analyzed: 06/05/24				
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS Dup (2423023-BSD1)					Prepared: 06/03/24 Analyzed: 06/05/24				
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132	0.0839	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 12:34:04PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423015-BLK1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	ND	20.0							
LCS (2423015-BS1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	250	20.0	250		100	90-110			
LCS Dup (2423015-BSD1)					Prepared: 06/03/24 Analyzed: 06/03/24				
Chloride	251	20.0	250		100	90-110	0.133	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/06/24 12:34

- 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

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number				1D 2D 3D Std					
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy		E 40536723003-0002						X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								NM CO UT TX					
Address: 3122 National Parks Hwy				Phone: 575-988-0055								X					
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA & Metals	SDWA	CWA	RCRA
9:45	5/23/2024	Soil	1	SS 01- 0'		1						X					
9:15	5/23/2024	Soil	1	SS 02- 0'		2						X					
9:20	5/23/2024	Soil	1	SS 03- 0'		3						X					
9:25	5/23/2024	Soil	1	SS 04- 0'		4						X					
9:30	5/23/2024	Soil	1	SS 05- 0'		5						X					
10:25	5/23/2024	Soil	1	BH 01- 2'		6						X					
10:45	5/23/2024	Soil	1	BH 02 - 1'		7						X					
11:25	5/23/2024	Soil	1	BH 03 - 2'		8						X					
11:50	5/23/2024	Soil	1	BH 04 - 1'		9						X					
12:10	5/23/2024	Soil	1	BH 01 - 0'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Omar Hamdy																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

## Envirotech Analytical Laboratory

Printed: 5/28/2024 1:57:02PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/28/24 10:00	Work Order ID:	E405367
Phone:	(972) 371-5200	Date Logged In:	05/25/24 19:03	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/04/24 17:00 (5 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Airship Fee Com #1H ROW

Work Order: E405368

Job Number: 23003-0002

Received: 5/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/5/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/5/24

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



Project Name: Airship Fee Com #1H ROW  
Workorder: E405368  
Date Received: 5/28/2024 10:00:41AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2024 10:00:41AM, under the Project Name: Airship Fee Com #1H ROW.

The analytical test results summarized in this report with the Project Name: Airship Fee Com #1H ROW apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
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Field Offices:

**Southern New Mexico Area**

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Client Representative  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

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



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Sample Summary

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/05/24 11:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH 02 - 0'	E405368-01A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH 03 - 0'	E405368-02A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH 04 - 0'	E405368-03A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/5/2024 11:25:20AM

BH 02 - 0'

E405368-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2422073
Benzene	ND	0.0250	1	05/30/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/01/24	
Toluene	ND	0.0250	1	05/30/24	06/01/24	
o-Xylene	ND	0.0250	1	05/30/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/01/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/30/24	06/01/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	05/30/24	06/01/24	
Surrogate: Toluene-d8		103 %	70-130	05/30/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2422073
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/01/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/30/24	06/01/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	05/30/24	06/01/24	
Surrogate: Toluene-d8		103 %	70-130	05/30/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		111 %	50-200	05/31/24	06/01/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2422117
Chloride	ND	20.0	1	05/31/24	06/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/5/2024 11:25:20AM
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BH 03 - 0'  
E405368-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422073	
Benzene	ND	0.0250	1	05/30/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/01/24	
Toluene	ND	0.0250	1	05/30/24	06/01/24	
o-Xylene	ND	0.0250	1	05/30/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/01/24	
Surrogate: Bromofluorobenzene	107 %	70-130		05/30/24	06/01/24	
Surrogate: 1,2-Dichloroethane-d4	88.8 %	70-130		05/30/24	06/01/24	
Surrogate: Toluene-d8	106 %	70-130		05/30/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/01/24	
Surrogate: Bromofluorobenzene	107 %	70-130		05/30/24	06/01/24	
Surrogate: 1,2-Dichloroethane-d4	88.8 %	70-130		05/30/24	06/01/24	
Surrogate: Toluene-d8	106 %	70-130		05/30/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2422111	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane	105 %	50-200		05/31/24	06/01/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422117	
Chloride	28800	1000	50	05/31/24	06/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/5/2024 11:25:20AM
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BH 04 - 0'

E405368-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422073	
Benzene	ND	0.0250	1	05/30/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/01/24	
Toluene	ND	0.0250	1	05/30/24	06/01/24	
o-Xylene	ND	0.0250	1	05/30/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/01/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/30/24	06/01/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	05/30/24	06/01/24	
Surrogate: Toluene-d8		104 %	70-130	05/30/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/01/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/30/24	06/01/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	05/30/24	06/01/24	
Surrogate: Toluene-d8		104 %	70-130	05/30/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2422111	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		105 %	50-200	05/31/24	06/01/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422117	
Chloride	108	20.0	1	05/31/24	06/01/24	





Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/5/2024 11:25:20AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2422073-BLK1)

Prepared: 05/30/24 Analyzed: 06/01/24

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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.450		0.500		89.9	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

LCS (2422073-BS1)

Prepared: 05/30/24 Analyzed: 06/01/24

Benzene	2.32	0.0250	2.50		92.7	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.0	70-130			
Toluene	2.47	0.0250	2.50		98.7	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	5.01	0.0500	5.00		100	70-130			
Total Xylenes	7.52	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS Dup (2422073-BSD1)

Prepared: 05/30/24 Analyzed: 06/01/24

Benzene	2.30	0.0250	2.50		92.1	70-130	0.563	23	
Ethylbenzene	2.48	0.0250	2.50		99.3	70-130	0.282	27	
Toluene	2.50	0.0250	2.50		100	70-130	1.27	24	
o-Xylene	2.61	0.0250	2.50		104	70-130	4.15	27	
p,m-Xylene	5.16	0.0500	5.00		103	70-130	2.81	27	
Total Xylenes	7.77	0.0250	7.50		104	70-130	3.26	27	
Surrogate: Bromofluorobenzene	0.562		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/5/2024 11:25:20AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422073-BLK1) Prepared: 05/30/24 Analyzed: 06/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.450		0.500		89.9	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

LCS (2422073-BS2) Prepared: 05/30/24 Analyzed: 06/01/24

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.562		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

LCS Dup (2422073-BSD2) Prepared: 05/30/24 Analyzed: 06/01/24

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0		102	70-130	1.23	20	
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/5/2024 11:25:20AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422111-BLK1) Prepared: 05/31/24 Analyzed: 05/31/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.4		50.0		103	50-200			

LCS (2422111-BS1) Prepared: 05/31/24 Analyzed: 05/31/24

Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

LCS Dup (2422111-BSD1) Prepared: 05/31/24 Analyzed: 06/01/24

Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132	4.73	20	
Surrogate: n-Nonane	54.9		50.0		110	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/5/2024 11:25:20AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422117-BLK1)					Prepared: 05/31/24 Analyzed: 05/31/24				
Chloride	ND	20.0							
LCS (2422117-BS1)					Prepared: 05/31/24 Analyzed: 05/31/24				
Chloride	250	20.0	250		99.8	90-110			
LCS Dup (2422117-BSD1)					Prepared: 05/31/24 Analyzed: 05/31/24				
Chloride	250	20.0	250		100	90-110	0.304	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/05/24 11:25

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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







## Envirotech Analytical Laboratory

Printed: 5/28/2024 1:44:12PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/28/24 10:00	Work Order ID:	E405368
Phone:	(972) 371-5200	Date Logged In:	05/25/24 19:03	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/04/24 17:00 (5 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Airship Fee Com #1H ROW

Work Order: E408028

Job Number: 23003-0002

Received: 8/5/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/19/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 8/19/24

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



Project Name: Airship Fee Com #1H ROW  
Workorder: E408028  
Date Received: 8/5/2024 9:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/5/2024 9:15:00AM, under the Project Name: Airship Fee Com #1H ROW.

The analytical test results summarized in this report with the Project Name: Airship Fee Com #1H ROW apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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Sample Summary

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/19/24 16:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-1.5'	E408028-01A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
FS03-2'	E408028-02A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
FS04-2'	E408028-03A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW01-0-4'	E408028-04A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW02-0-3'	E408028-05A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
FS29-2'	E408028-06A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
FS30-2'	E408028-07A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
FS31-2'	E408028-08A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:32:18PM
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FS02-1.5'

E408028-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2432009	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
Surrogate: n-Nonane	126 %	50-200		08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432015	
Chloride	283	20.0	1	08/05/24	08/05/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:32:18PM
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FS03-2'  
E408028-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432009	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	127 %	50-200		08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432015	
Chloride	157	20.0	1	08/05/24	08/05/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/19/2024 4:32:18PM

FS04-2'

E408028-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432010
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.2 %	70-130	08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432010
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432009
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
		131 %	50-200	08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432015
Chloride	205	20.0	1	08/05/24	08/05/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:32:18PM
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SW01-0-4'  
E408028-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2432009	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
Surrogate: n-Nonane	116 %	50-200		08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432015	
Chloride	ND	20.0	1	08/05/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:32:18PM
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SW02-0-3'  
E408028-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2432009	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
Surrogate: n-Nonane	119 %	50-200		08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432015	
Chloride	ND	20.0	1	08/05/24	08/06/24	





## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/19/2024 4:32:18PM

FS29-2'

E408028-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.8 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432009	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432015	
Chloride	27.4	20.0	1	08/05/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:32:18PM
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FS30-2'  
E408028-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2432009	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
Surrogate: n-Nonane	124 %	50-200		08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432015	
Chloride	96.5	20.0	1	08/05/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:32:18PM
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FS31-2'  
E408028-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Benzene	ND	0.0250	1	08/05/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/06/24	
Toluene	ND	0.0250	1	08/05/24	08/06/24	
o-Xylene	ND	0.0250	1	08/05/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/05/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432009	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	131 %	50-200		08/05/24	08/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432015	
Chloride	ND	20.0	1	08/05/24	08/05/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:32:18PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432010-BLK1) Prepared: 08/05/24 Analyzed: 08/06/24

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	7.11		8.00		88.8	70-130			

LCS (2432010-BS1) Prepared: 08/05/24 Analyzed: 08/06/24

Benzene	5.47	0.0250	5.00		109	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.36	0.0250	5.00		107	70-130			
o-Xylene	5.18	0.0250	5.00		104	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.5	70-130			

Matrix Spike (2432010-MS1) Source: E408028-03 Prepared: 08/05/24 Analyzed: 08/06/24

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133			
Toluene	4.96	0.0250	5.00	ND	99.2	61-130			
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131			
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.07		8.00		88.3	70-130			

Matrix Spike Dup (2432010-MSD1) Source: E408028-03 Prepared: 08/05/24 Analyzed: 08/06/24

Benzene	5.15	0.0250	5.00	ND	103	54-133	2.15	20	
Ethylbenzene	4.81	0.0250	5.00	ND	96.1	61-133	1.82	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	1.93	20	
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131	1.91	20	
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131	1.69	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.6	63-131	1.77	20	
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:32:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2432010-BLK1) Prepared: 08/05/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			

LCS (2432010-BS2) Prepared: 08/05/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.51		8.00		106	70-130			

Matrix Spike (2432010-MS2) Source: E408028-03 Prepared: 08/05/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.51		8.00		106	70-130			

Matrix Spike Dup (2432010-MSD2) Source: E408028-03 Prepared: 08/05/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.8	70-130	14.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		8.00		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:32:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432009-BLK1) Prepared: 08/05/24 Analyzed: 08/06/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	66.7		50.0		133	50-200			

LCS (2432009-BS1) Prepared: 08/05/24 Analyzed: 08/06/24

Diesel Range Organics (C10-C28)	327	25.0	250		131	38-132			
Surrogate: n-Nonane	64.9		50.0		130	50-200			

Matrix Spike (2432009-MS1) Source: E408028-01 Prepared: 08/05/24 Analyzed: 08/06/24

Diesel Range Organics (C10-C28)	330	25.0	250	ND	132	38-132			
Surrogate: n-Nonane	65.4		50.0		131	50-200			

Matrix Spike Dup (2432009-MSD1) Source: E408028-01 Prepared: 08/05/24 Analyzed: 08/06/24

Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132	6.91	20	
Surrogate: n-Nonane	66.4		50.0		133	50-200			





QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:32:18PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432015-BLK1)					Prepared: 08/05/24 Analyzed: 08/05/24				
Chloride	ND	20.0							
LCS (2432015-BS1)					Prepared: 08/05/24 Analyzed: 08/05/24				
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2432015-MS1)					Source: E408028-08		Prepared: 08/05/24 Analyzed: 08/05/24		
Chloride	262	20.0	250	ND	105	80-120			
Matrix Spike Dup (2432015-MSD1)					Source: E408028-08		Prepared: 08/05/24 Analyzed: 08/05/24		
Chloride	262	20.0	250	ND	105	80-120	0.112	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/19/24 16:32

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

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

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



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy		E408028	23003-0002				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
9:19	8/1/2024	Soil	1	FS02 - 1.5'		1						X					
10:41	8/1/2024	Soil	1	FS03 - 2'		2						X					
10:44	8/1/2024	Soil	1	FS04 - 2'		3						X					
10:54	8/1/2024	Soil	1	SW01 - 0-4'		4						X					
10:56	8/1/2024	Soil	1	SW02 - 0-3'		5						X					
13:37	8/1/2024	Soil	1	FS10 - 2'		6						X					
13:41	8/1/2024	Soil	1	FS11 - 2'		7						X					
13:45	8/1/2024	Soil	1	FS12 - 2'		8						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton and Bowan Simmons																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N  T1 _____ T2 _____ T3 _____  AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



## Envirotech Analytical Laboratory

Printed: 8/5/2024 11:07:11AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/05/24 09:15	Work Order ID:	E408028
Phone:	(972) 371-5200	Date Logged In:	08/05/24 09:44	Logged In By:	Keyliegh Hall
Email:	agiovngo@ensolum.com	Due Date:	08/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy		E408028		23003-0002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
9:19	8/1/2024	Soil	1	FS02 - 1.5'		1						X					
10:41	8/1/2024	Soil	1	FS03 - 2'		2						X					
10:44	8/1/2024	Soil	1	FS04 - 2'		3						X					
10:54	8/1/2024	Soil	1	SW01 - 0-4'		4						X					
10:56	8/1/2024	Soil	1	SW02 - 0-3'		5						X					
13:37	8/1/2024	Soil	1	FS10 - 2'		6						X					
13:41	8/1/2024	Soil	1	FS11 - 2'		7						X					
13:45	8/1/2024	Soil	1	FS12 - 2'		8						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton and Bowan Simmons																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days  Lab Use Only Received on ice: Y/ N  T1 _____ T2 _____ T3 _____  AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

02 jo 02 ead

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Received by OCD: 8/22/2024 12:10:53 PM

Released to Imaging: 10/8/2024 2:25:49 PM



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Airstrip Fee Com #1H ROW

Work Order: E408036

Job Number: 23003-0002

Received: 8/6/2024

Revision: 3

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/19/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 8/19/24

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



Project Name: Airstrip Fee Com #1H ROW  
Workorder: E408036  
Date Received: 8/6/2024 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2024 6:30:00AM, under the Project Name: Airstrip Fee Com #1H ROW.

The analytical test results summarized in this report with the Project Name: Airstrip Fee Com #1H ROW apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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

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## Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Airstrip Fee Com #1H ROW

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

08/19/24 16:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 4'	E408036-01A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS05 - 4'	E408036-02A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS06 - 4'	E408036-03A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS07 - 4'	E408036-04A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS08 - 4'	E408036-05A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS09 - 4'	E408036-06A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS10 - 4'	E408036-07A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS11 - 4'	E408036-08A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS12 - 4'	E408036-09A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS13 - 4'	E408036-10A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS14 - 4'	E408036-11A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS15 - 4'	E408036-12A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS16 - 3'	E408036-13A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS17 - 2'	E408036-14A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS18 - 2'	E408036-15A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
FS19 - 2'	E408036-16A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
SW03 - 0-4'	E408036-17A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
SW04 - 0-4'	E408036-18A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
SW11 - 0-4'	E408036-19A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.
SW06 - 0-3'	E408036-20A	Soil	08/02/24	08/06/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS01 - 4'

E408036-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		08/06/24	08/07/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		08/06/24	08/07/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane	104 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	72.5	20.0	1	08/06/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS05 - 4'

E408036-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		08/06/24	08/07/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		08/06/24	08/07/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	862	20.0	1	08/06/24	08/06/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS06 - 4'

E408036-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		08/06/24	08/07/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		08/06/24	08/07/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane	103 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	573	20.0	1	08/06/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS07 - 4'

E408036-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/08/24	
Toluene	ND	0.0250	1	08/06/24	08/08/24	
o-Xylene	ND	0.0250	1	08/06/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/08/24	
Surrogate: 4-Bromochlorobenzene-PID	88.4 %	70-130		08/06/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		08/06/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane	101 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	1550	20.0	1	08/06/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS08 - 4'

E408036-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/06/24	
Toluene	ND	0.0250	1	08/06/24	08/06/24	
o-Xylene	ND	0.0250	1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/06/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		08/06/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		08/06/24	08/06/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane	103 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	4830	40.0	2	08/06/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS09 - 4'

E408036-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/08/24	
Toluene	ND	0.0250	1	08/06/24	08/08/24	
o-Xylene	ND	0.0250	1	08/06/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.1 %	70-130		08/06/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		08/06/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	5110	40.0	2	08/06/24	08/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS10 - 4'

E408036-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane	103 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	3430	40.0	2	08/06/24	08/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS11 - 4'

E408036-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane	103 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	5370	100	5	08/06/24	08/07/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS12 - 4'

E408036-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane	106 %	50-200		08/06/24	08/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	3280	40.0	2	08/06/24	08/07/24	



## Sample Data

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

Project Name: Airstrip Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/19/2024 4:28:27PM

FS13 - 4'

E408036-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.0 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	1600	20.0	1	08/06/24	08/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS14 - 4'

E408036-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	852	20.0	1	08/06/24	08/07/24	



## Sample Data

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

Project Name: Airstrip Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/19/2024 4:28:27PM

FS15 - 4'

E408036-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	102	20.0	1	08/06/24	08/06/24	



## Sample Data

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

Project Name: Airstrip Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/19/2024 4:28:27PM

## FS16 - 3'

## E408036-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	222	20.0	1	08/06/24	08/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS17 - 2'

E408036-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
Surrogate: n-Nonane	103 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	ND	20.0	1	08/06/24	08/07/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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FS18 - 2'

E408036-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
Surrogate: n-Nonane	103 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	35.9	20.0	1	08/06/24	08/07/24	



## Sample Data

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

Project Name: Airstrip Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/19/2024 4:28:27PM

FS19 - 2'

E408036-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	176	20.0	1	08/06/24	08/07/24	



## Sample Data

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

Project Name: Airstrip Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/19/2024 4:28:27PM

SW03 - 0-4'

E408036-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	ND	20.0	1	08/06/24	08/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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SW04 - 0-4'  
E408036-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
Surrogate: n-Nonane	108 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	76.1	20.0	1	08/06/24	08/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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SW11 - 0-4'  
E408036-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	ND	20.0	1	08/06/24	08/07/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airstrip Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/19/2024 4:28:27PM
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SW06 - 0-3'  
E408036-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Benzene	ND	0.0250	1	08/06/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/09/24	
Toluene	ND	0.0250	1	08/06/24	08/09/24	
o-Xylene	ND	0.0250	1	08/06/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		08/06/24	08/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432037	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/08/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		08/06/24	08/08/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432034	
Chloride	ND	20.0	1	08/06/24	08/07/24	





QC Summary Data

Matador Resources, LLC.	Project Name:	Airstrip Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:28:27PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432032-BLK1) Prepared: 08/06/24 Analyzed: 08/06/24

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	7.18		8.00		89.8	70-130			

LCS (2432032-BS1) Prepared: 08/06/24 Analyzed: 08/06/24

Benzene	4.85	0.0250	5.00		96.9	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.5	70-130			
Toluene	4.74	0.0250	5.00		94.9	70-130			
o-Xylene	4.61	0.0250	5.00		92.1	70-130			
p,m-Xylene	9.37	0.0500	10.0		93.7	70-130			
Total Xylenes	14.0	0.0250	15.0		93.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			

Matrix Spike (2432032-MS1) Source: E408036-05 Prepared: 08/06/24 Analyzed: 08/06/24

Benzene	4.55	0.0250	5.00	ND	91.0	54-133			
Ethylbenzene	4.35	0.0250	5.00	ND	87.0	61-133			
Toluene	4.46	0.0250	5.00	ND	89.2	61-130			
o-Xylene	4.32	0.0250	5.00	ND	86.3	63-131			
p,m-Xylene	8.82	0.0500	10.0	ND	88.2	63-131			
Total Xylenes	13.1	0.0250	15.0	ND	87.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike Dup (2432032-MSD1) Source: E408036-05 Prepared: 08/06/24 Analyzed: 08/06/24

Benzene	4.72	0.0250	5.00	ND	94.5	54-133	3.78	20	
Ethylbenzene	4.50	0.0250	5.00	ND	90.0	61-133	3.45	20	
Toluene	4.62	0.0250	5.00	ND	92.4	61-130	3.54	20	
o-Xylene	4.49	0.0250	5.00	ND	89.7	63-131	3.82	20	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	63-131	3.24	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.6	63-131	3.43	20	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airstrip Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:28:27PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432032-BLK1) Prepared: 08/06/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

LCS (2432032-BS2) Prepared: 08/06/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	36.9	20.0	50.0		73.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

Matrix Spike (2432032-MS2) Source: E408036-05 Prepared: 08/06/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	41.4	20.0	50.0	ND	82.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

Matrix Spike Dup (2432032-MSD2) Source: E408036-05 Prepared: 08/06/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	38.4	20.0	50.0	ND	76.8	70-130	7.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airstrip Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:28:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2432037-BLK1) Prepared: 08/06/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	50-200			

LCS (2432037-BS1) Prepared: 08/06/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			

Matrix Spike (2432037-MS1) Source: E408036-05 Prepared: 08/06/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	56.1		50.0		112	50-200			

Matrix Spike Dup (2432037-MSD1) Source: E408036-05 Prepared: 08/06/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	3.31	20	
Surrogate: n-Nonane	57.1		50.0		114	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airstrip Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/19/2024 4:28:27PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2432034-BLK1)					Prepared: 08/06/24 Analyzed: 08/06/24				
Chloride	ND	20.0							
LCS (2432034-BS1)					Prepared: 08/06/24 Analyzed: 08/06/24				
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2432034-MS1)					Source: E408036-12		Prepared: 08/06/24 Analyzed: 08/06/24		
Chloride	354	20.0	250	102	101	80-120			
Matrix Spike Dup (2432034-MSD1)					Source: E408036-12		Prepared: 08/06/24 Analyzed: 08/06/24		
Chloride	354	20.0	250	102	101	80-120	0.133	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Airstrip Fee Com #1H ROW	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/19/24 16:28

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 2

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy		E408034		28003-0002					X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	EPA Program				
																SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Remarks			
9:46	8/2/2024	S	1	FS01 - 4'		1						X							
10:43	8/2/2024	S	1	FS05 - 4'		2						X							
10:45	8/2/2024	S	1	FS06 - 4'		3						X							
10:47	8/2/2024	S	1	FS07 - 4'		4						X							
10:49	8/2/2024	S	1	FS08 - 4'		5						X							
10:51	8/2/2024	S	1	FS09 - 4'		6						X							
10:55	8/2/2024	S	1	FS10 - 4'		7						X							
10:57	8/2/2024	S	1	FS11 - 4'		8						X							
10:57	8/2/2024	S	1	FS12 - 4'		9						X							
11:01	8/2/2024	S	1	FS13 - 4'		10						X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Cole Burton																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other														Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Relinquished by: (Signature)  
*Zed Burton*

8/5/24  
7:30

Relinquished by: (Signature)  
*Michelle Gonzales*

8-5-24  
1415

Relinquished by: (Signature)  
*Michelle Gonzales*

8-5-24  
1540

Relinquished by: (Signature)  
*Anden M880*

8-5-24  
1830

Relinquished by: (Signature)  
*Anden M880*

8-5-24  
2400

Relinquished by: (Signature)  
*Highly R Hall*

8-6-24  
0630

Lab Use Only  
Received on ice: ☒ Y / N  
T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
AVG Temp °C 4





## Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy		E408036		Job Number				23003-0002					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								x					
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
11:05	8/2/2024	S	1	FS14 - 4'		11						X					
11:08	8/2/2024	S	1	FS15 - 4'		12						X					
12:30	8/2/2024	S	1	FS16 - 3'		13						X					
12:49	8/2/2024	S	1	FS17 - 2'		14						X					
12:55	8/2/2024	S	1	FS18 - 2'		15						X					
14:02	8/2/2024	S	1	FS19 - 2'		16						X					
11:07	8/2/2024	S	1	SW03 - 0-4'		17						X					
12:12	8/2/2024	S	1	SW04 - 0-4'		18						X					
12:14	8/2/2024	S	1	SW05 - 0-4'		19						X					
14:01	8/2/2024	S	1	SW06 - 0-3'		20						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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## Envirotech Analytical Laboratory

Printed: 8/6/2024 9:33:57AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/06/24 06:30	Work Order ID:	E408036
Phone:	(972) 371-5200	Date Logged In:	08/05/24 17:00	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/12/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number				NM CO UT TX					
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy		E408034		28003-0002				x					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
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10:47	8/2/2024	S	1	FS07 - 4'		4						X					
10:49	8/2/2024	S	1	FS08 - 4'		5						X					
10:51	8/2/2024	S	1	FS09 - 4'		6						X					
10:55	8/2/2024	S	1	FS10 - 4'		7						X					
10:57	8/2/2024	S	1	FS11 - 4'		8						X					
10:57	8/2/2024	S	1	FS12 - 4'		9						X					
11:01	8/2/2024	S	1	FS13 - 4'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
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Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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## Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy				E408036		23003-0002					x	x			
Project Manager: Ashley Giovenago				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovenago@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovenago@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
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12:49	8/2/2024	S	1	FS17 - 2'			14						X						
12:55	8/2/2024	S	1	FS18 - 2'			15						X						
14:02	8/2/2024	S	1	FS19 - 2'			16						X						
11:07	8/2/2024	S	1	SW03 - 0-4'			17						X						
12:12	8/2/2024	S	1	SW04 - 0-4'			18						X						
12:14	8/2/2024	S	1	SW05 - 0-4'			19						X						
14:01	8/2/2024	S	1	SW06 - 0-3'			20						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovenago@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																			
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Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
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envirotech



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Airship Fee Com #1H ROW

Work Order: E408054

Job Number: 23003-0002

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/13/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 8/13/24

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



Project Name: Airship Fee Com #1H ROW  
Workorder: E408054  
Date Received: 8/7/2024 8:25:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 8:25:00AM, under the Project Name: Airship Fee Com #1H ROW.

The analytical test results summarized in this report with the Project Name: Airship Fee Com #1H ROW apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

**Southern New Mexico Area**

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

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

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

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Sample Summary

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/13/24 09:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW08-0-4'	E408054-01A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS21-2'	E408054-02A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS20-4'	E408054-03A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS22-2'	E408054-04A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS24-2'	E408054-05A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS23-2'	E408054-06A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name: Airship Fee Com #1H ROW

Project Number: 23003-0002

Project Manager: Ashley Giovengo

**Reported:**

8/13/2024 9:02:46AM

**SW08-0-4'****E408054-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Benzene	ND	0.0250	1	08/07/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/08/24	
Toluene	ND	0.0250	1	08/07/24	08/08/24	
o-Xylene	ND	0.0250	1	08/07/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.1 %	70-130	08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	08/07/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432094	
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 9:02:46AM
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FS21-2'

E408054-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Benzene	ND	0.0250	1	08/07/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/08/24	
Toluene	ND	0.0250	1	08/07/24	08/08/24	
o-Xylene	ND	0.0250	1	08/07/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/08/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	98.9 %	50-200		08/07/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432094	
Chloride	210	20.0	1	08/08/24	08/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 9:02:46AM
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FS20-4'  
E408054-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Benzene	ND	0.0250	1	08/07/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/08/24	
Toluene	ND	0.0250	1	08/07/24	08/08/24	
o-Xylene	ND	0.0250	1	08/07/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/08/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	96.1 %	50-200		08/07/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432094	
Chloride	108	20.0	1	08/08/24	08/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 9:02:46AM
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FS22-2'

E408054-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Benzene	ND	0.0250	1	08/07/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/08/24	
Toluene	ND	0.0250	1	08/07/24	08/08/24	
o-Xylene	ND	0.0250	1	08/07/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		08/07/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432094	
Chloride	138	20.0	1	08/08/24	08/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 9:02:46AM
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FS24-2'  
E408054-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Benzene	ND	0.0250	1	08/07/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/08/24	
Toluene	ND	0.0250	1	08/07/24	08/08/24	
o-Xylene	ND	0.0250	1	08/07/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/08/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	98.6 %	50-200		08/07/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432094	
Chloride	181	20.0	1	08/08/24	08/08/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 9:02:46AM
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FS23-2'  
E408054-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Benzene	ND	0.0250	1	08/07/24	08/08/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/08/24	
Toluene	ND	0.0250	1	08/07/24	08/08/24	
o-Xylene	ND	0.0250	1	08/07/24	08/08/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/08/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/08/24	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2432060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		08/07/24	08/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2432064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	99.6 %	50-200		08/07/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2432094	
Chloride	178	20.0	1	08/08/24	08/08/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/13/2024 9:02:46AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432060-BLK1) Prepared: 08/07/24 Analyzed: 08/09/24

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	7.26		8.00		90.8	70-130			

LCS (2432060-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	4.29	0.0250	5.00		85.9	70-130			
Ethylbenzene	4.12	0.0250	5.00		82.4	70-130			
Toluene	4.22	0.0250	5.00		84.4	70-130			
o-Xylene	4.11	0.0250	5.00		82.2	70-130			
p,m-Xylene	8.39	0.0500	10.0		83.9	70-130			
Total Xylenes	12.5	0.0250	15.0		83.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			

Matrix Spike (2432060-MS1) Source: E408053-06 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	4.21	0.0250	5.00	ND	84.1	54-133			
Ethylbenzene	4.04	0.0250	5.00	ND	80.7	61-133			
Toluene	4.13	0.0250	5.00	0.0269	82.1	61-130			
o-Xylene	4.01	0.0250	5.00	ND	80.2	63-131			
p,m-Xylene	8.21	0.0500	10.0	ND	82.1	63-131			
Total Xylenes	12.2	0.0250	15.0	ND	81.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.9	70-130			

Matrix Spike Dup (2432060-MSD1) Source: E408053-06 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	4.11	0.0250	5.00	ND	82.2	54-133	2.35	20	
Ethylbenzene	3.94	0.0250	5.00	ND	78.8	61-133	2.39	20	
Toluene	4.04	0.0250	5.00	0.0269	80.3	61-130	2.17	20	
o-Xylene	3.92	0.0250	5.00	ND	78.4	63-131	2.27	20	
p,m-Xylene	8.02	0.0500	10.0	ND	80.2	63-131	2.38	20	
Total Xylenes	11.9	0.0250	15.0	ND	79.6	63-131	2.34	20	
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.6	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/13/2024 9:02:46AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432060-BLK1)

Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

LCS (2432060-BS2)

Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0		78.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2432060-MS2)

Source: E408053-06 Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	36.9	20.0	50.0	ND	73.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

Matrix Spike Dup (2432060-MSD2)

Source: E408053-06 Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.8	70-130	9.21	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/13/2024 9:02:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432064-BLK1) Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.8		50.0		106	50-200			

LCS (2432064-BS1) Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike (2432064-MS1) Source: E408043-01 Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

Matrix Spike Dup (2432064-MSD1) Source: E408043-01 Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	38-132	3.24	20	
Surrogate: n-Nonane	49.7		50.0		99.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 9:02:46AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432094-BLK1)					Prepared: 08/08/24 Analyzed: 08/08/24				
Chloride	ND	20.0							
LCS (2432094-BS1)					Prepared: 08/08/24 Analyzed: 08/08/24				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2432094-MS1)					Source: E408053-03		Prepared: 08/08/24 Analyzed: 08/08/24		
Chloride	299	20.0	250	36.3	105	80-120			
Matrix Spike Dup (2432094-MSD1)					Source: E408053-03		Prepared: 08/08/24 Analyzed: 08/08/24		
Chloride	293	20.0	250	36.3	103	80-120	2.18	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/13/24 09:02

- 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

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number		1D 2D 3D Std				NM CO UT TX			
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy		E408054		23003-0002		x				x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
12:32	8/5/2024	Soil	1	SW08 - 0-4'		1						X					
9:41	8/5/2024	Soil	1	FS21 - 2'		2						X					
15:30	8/5/2024	Soil	1	FS20 - 4'		3						X					
10:22	8/5/2024	Soil	1	FS22 - 2'		4						X					
16:24	8/5/2024	Soil	1	FS24 - 2'		5						X					
12:02	8/5/2024	Soil	1	FS23 - 2'		6						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Brandon Deal																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
[Signature]		08/06/2024	9:30am	Michelle Gonzales		8-6-24	0930	[Signature]		8-6-24	1705	Lab Use Only					
Michelle Gonzales		8-6-24	1705	[Signature]		8-6-24	1705	[Signature]		8-6-24	1705	Received on ice: Y / N					
[Signature]		8-6-24	2330	[Signature]		8-6-24	2330	[Signature]		8-7-24	0825	T1 T2 T3					
[Signature]				[Signature]				[Signature]				AVG Temp °C 4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



## Envirotech Analytical Laboratory

Printed: 8/7/2024 11:20:25AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/07/24 08:25	Work Order ID:	E408054
Phone:	(972) 371-5200	Date Logged In:	08/07/24 08:16	Logged In By:	Keyliegh Hall
Email:	agiovngo@ensolum.com	Due Date:	08/13/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Airship Fee Com #1H ROW

Work Order: E408073

Job Number: 23003-0002

Received: 8/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/14/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 8/14/24

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



Project Name: Airship Fee Com #1H ROW  
Workorder: E408073  
Date Received: 8/8/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/8/2024 8:30:00AM, under the Project Name: Airship Fee Com #1H ROW.

The analytical test results summarized in this report with the Project Name: Airship Fee Com #1H ROW apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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

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Sample Summary

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/14/24 09:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS25-2'	E408073-01A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS26-2'	E408073-02A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS27-2'	E408073-03A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS28-2'	E408073-04A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
BH01-11'	E408073-05A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
SW07-0-4'	E408073-06A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
SW09-0-2'	E408073-07A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
SW10-0-2'	E408073-08A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.





## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/14/2024 9:30:46AM

FS25-2'

E408073-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432099	
Benzene	ND	0.0250	1	08/08/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/10/24	
Toluene	ND	0.0250	1	08/08/24	08/10/24	
o-Xylene	ND	0.0250	1	08/08/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		117 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		117 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432084	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane		110 %	50-200	08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432112	
Chloride	381	20.0	1	08/08/24	08/09/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/14/2024 9:30:46AM
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FS26-2'  
E408073-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432099	
Benzene	ND	0.0250	1	08/08/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/10/24	
Toluene	ND	0.0250	1	08/08/24	08/10/24	
o-Xylene	ND	0.0250	1	08/08/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432084	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane		97.5 %	50-200	08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432112	
Chloride	48.3	20.0	1	08/08/24	08/09/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/14/2024 9:30:46AM

FS27-2'

E408073-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Benzene	ND	0.0250	1	08/08/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/10/24	
Toluene	<b>0.0260</b>	0.0250	1	08/08/24	08/10/24	
o-Xylene	ND	0.0250	1	08/08/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		109 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		109 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432084
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane		96.7 %	50-200	08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432112
Chloride	<b>112</b>	20.0	1	08/08/24	08/09/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/14/2024 9:30:46AM

FS28-2'

E408073-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Benzene	ND	0.0250	1	08/08/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/10/24	
Toluene	ND	0.0250	1	08/08/24	08/10/24	
o-Xylene	ND	0.0250	1	08/08/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		107 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		107 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432084
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane		98.4 %	50-200	08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432112
Chloride	132	20.0	1	08/08/24	08/09/24	



## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/14/2024 9:30:46AM

BH01-11'

E408073-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Benzene	ND	0.0250	1	08/08/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/10/24	
Toluene	ND	0.0250	1	08/08/24	08/10/24	
o-Xylene	ND	0.0250	1	08/08/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432084
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane		104 %	50-200	08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432112
Chloride	445	20.0	1	08/08/24	08/09/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/14/2024 9:30:46AM
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SW07-0-4'  
E408073-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Benzene	ND	0.0250	1	08/08/24	08/10/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/10/24	
Toluene	ND	0.0250	1	08/08/24	08/10/24	
o-Xylene	ND	0.0250	1	08/08/24	08/10/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/10/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		118 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		107 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/10/24	
Surrogate: Bromofluorobenzene		118 %	70-130	08/08/24	08/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	08/08/24	08/10/24	
Surrogate: Toluene-d8		107 %	70-130	08/08/24	08/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432084
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane		106 %	50-200	08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432112
Chloride	581	20.0	1	08/08/24	08/09/24	





## Sample Data

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

Project Name: Airship Fee Com #1H ROW  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/14/2024 9:30:46AM

SW09-0-2'

E408073-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Benzene	ND	0.0250	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/12/24	
Toluene	ND	0.0250	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	08/08/24	08/12/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	08/08/24	08/12/24	
Surrogate: Toluene-d8		108 %	70-130	08/08/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432084
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane		112 %	50-200	08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432112
Chloride	209	20.0	1	08/08/24	08/09/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/14/2024 9:30:46AM
---	---	----------------------------------

SW10-0-2'  
E408073-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432099	
Benzene	ND	0.0250	1	08/08/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/12/24	
Toluene	0.0260	0.0250	1	08/08/24	08/12/24	
o-Xylene	ND	0.0250	1	08/08/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene	115 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4	88.6 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8	111 %	70-130		08/08/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/12/24	
Surrogate: Bromofluorobenzene	115 %	70-130		08/08/24	08/12/24	
Surrogate: 1,2-Dichloroethane-d4	88.6 %	70-130		08/08/24	08/12/24	
Surrogate: Toluene-d8	111 %	70-130		08/08/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432084	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/24	08/09/24	
Surrogate: n-Nonane	114 %	50-200		08/08/24	08/09/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432112	
Chloride	ND	20.0	1	08/08/24	08/09/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/14/2024 9:30:46AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2432099-BLK1)

Prepared: 08/08/24 Analyzed: 08/10/24

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	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

LCS (2432099-BS1)

Prepared: 08/08/24 Analyzed: 08/10/24

Benzene	2.23	0.0250	2.50		89.3	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.8	70-130			
Toluene	2.45	0.0250	2.50		98.1	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.577		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike (2432099-MS1)

Source: E408073-03

Prepared: 08/08/24 Analyzed: 08/10/24

Benzene	2.36	0.0250	2.50	ND	94.4	48-131			
Ethylbenzene	2.48	0.0250	2.50	ND	99.1	45-135			
Toluene	2.54	0.0250	2.50	0.0260	101	48-130			
o-Xylene	2.71	0.0250	2.50	ND	108	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.06	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike Dup (2432099-MSD1)

Source: E408073-03

Prepared: 08/08/24 Analyzed: 08/10/24

Benzene	2.15	0.0250	2.50	ND	86.0	48-131	9.36	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.7	45-135	8.81	27	
Toluene	2.33	0.0250	2.50	0.0260	92.2	48-130	8.68	24	
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	6.21	27	
p,m-Xylene	5.03	0.0500	5.00	ND	101	43-135	6.24	27	
Total Xylenes	7.57	0.0250	7.50	ND	101	43-135	6.23	27	
Surrogate: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/14/2024 9:30:46AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432099-BLK1) Prepared: 08/08/24 Analyzed: 08/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

LCS (2432099-BS2) Prepared: 08/08/24 Analyzed: 08/10/24

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2432099-MS2) Source: E408073-03 Prepared: 08/08/24 Analyzed: 08/10/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.5	70-130			
Surrogate: Bromofluorobenzene	0.585		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike Dup (2432099-MSD2) Source: E408073-03 Prepared: 08/08/24 Analyzed: 08/10/24

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.9	70-130	0.391	20	
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/14/2024 9:30:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432084-BLK1) Prepared: 08/08/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.3		50.0		111	50-200			

LCS (2432084-BS1) Prepared: 08/08/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike (2432084-MS1) Source: E408063-02 Prepared: 08/08/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike Dup (2432084-MSD1) Source: E408063-02 Prepared: 08/08/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	38-132	1.13	20	
Surrogate: n-Nonane	58.1		50.0		116	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Airship Fee Com #1H ROW Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/14/2024 9:30:46AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432112-BLK1)					Prepared: 08/08/24 Analyzed: 08/09/24				
Chloride	ND	20.0							
LCS (2432112-BS1)					Prepared: 08/08/24 Analyzed: 08/09/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2432112-MS1)					Source: E408073-02		Prepared: 08/08/24 Analyzed: 08/09/24		
Chloride	349	20.0	250	48.3	120	80-120			
Matrix Spike Dup (2432112-MSD1)					Source: E408073-02		Prepared: 08/08/24 Analyzed: 08/09/24		
Chloride	324	20.0	250	48.3	110	80-120	7.46	20	

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





Definitions and Notes

Matador Resources, LLC.	Project Name:	Airship Fee Com #1H ROW	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/14/24 09:30

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

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

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



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E408073		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project: Airstrip Fee Com #1H ROW				Address: 3122 National Parks Hwy										X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
<b>Sample Information</b>																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	EPA Program		
															SDWA	CWA	RCRA
															Compliance	Y	or N
															PWSID #		
															Remarks		
9:12	8/6/2024	Soil	1	FS25 - 2'		1						X					
9:14	8/6/2024	Soil	1	FS26 - 2'		2						X					
9:17	8/6/2024	Soil	1	FS27 - 2'		3						X					
9:20	8/6/2024	Soil	1	FS28 - 2'		4						X					
10:15	8/6/2024	Soil	1	BH01 - 11'		5						X					
11:22	8/6/2024	Soil	1	SW07 - 0-4'		6						X					
11:00	8/6/2024	Soil	1	SW09 - 0-2'		7						X					
11:27	8/6/2024	Soil	1	SW10 - 0-2'		8						X					
<b>Additional Instructions:</b> Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Brandon Deal																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
[Signature]		8/7/2024	9:30 am	Michelle Gonzales		8-7-24	0930										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
Michelle Gonzales		8-7-24	1550	Camden Bruce		8-7-24	1710	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____									
Camden Bruce		8-8-24	0002	[Signature]		8-8-24	0830										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 41									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



## Envirotech Analytical Laboratory

Printed: 8/8/2024 1:49:59PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/08/24 08:30	Work Order ID:	E408073
Phone:	(972) 371-5200	Date Logged In:	08/07/24 16:15	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	08/14/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



## APPENDIX E

### Email Correspondence

---

**From:** [Velez, Nelson, EMNRD](#)  
**To:** [Ashley Giovengo](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com); [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com); [clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com); [Bratcher, Michael, EMNRD](#)  
**Subject:** Re: [EXTERNAL] Extension Request - Airstrip Fee Com #1H - Incident Number nAPP2413925956  
**Date:** Wednesday, August 7, 2024 2:39:45 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[Outlook-b141ip3v.png](#)

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

Good day Ashley,

Thank you for the correspondence. Your time extension request is approved.  
Remediation Due date has been updated to November 14, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Wednesday, August 7, 2024 2:33 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>; Arsenio Jones <[arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com)>; Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; clinton.talley@matadorresources.com <[clinton.talley@matadorresources.com](mailto:clinton.talley@matadorresources.com)>

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

**Subject:** [EXTERNAL] Extension Request - Airstrip Fee Com #1H - Incident Number nAPP2413925956

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

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of August 16, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Airstrip Fee Com #1H (Site) (Incident Number nAPP2413925956). The release occurred on May 18, 2024, and lateral and vertical delineation sampling to the strictest Closure Criteria per NMOCD Table I has been completed at the Site. Ensolum personnel oversaw the excavation of the off-pad release extent beginning on July 30, 2024, through August 06, 2024. Ensolum personnel collected confirmation samples every 200 square feet from the floor and sidewalls of the excavation and final laboratory analytical results are pending analysis. Matador intends to submit a remediation work plan or closure report, upon receiving/reviewing final laboratory analytical results and Matador respectfully requests a 90-day extension until November 14, 2024.

Thanks,



**Ashley Giovengo**  
Senior Scientist  
575-988-0055  
Ensolum, LLC  
in f X

“Your authenticity is your superpower.” – Unknown



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
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QUESTIONS  
  
Action 376563

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 376563
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413925956
Incident Name	NAPP2413925956 AIRSTRIP FEE COM 1H 4" ROW @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	AIRSTRIP FEE COM 1H 4" ROW
Date Release Discovered	05/18/2024
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: Human Error   Pipeline (Any)   Produced Water   Released: 61 BBL   Recovered: 0 BBL   Lost: 61 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)	Someone shot the poly line with a firearm. Not sure who done this.

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QUESTIONS, Page 2

Action 376563

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/22/2024
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QUESTIONS, Page 3

Action 376563

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	376563
	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.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	28800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	20
GRO+DRO (EPA SW-846 Method 8015M)	20
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	07/30/2024
On what date will (or did) the final sampling or liner inspection occur	08/06/2024
On what date will (or was) the remediation complete(d)	08/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	6200
What is the estimated volume (in cubic yards) that will be reclaimed	803
What is the estimated surface area (in square feet) that will be remediated	6200
What is the estimated volume (in cubic yards) that will be remediated	803

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 376563

**QUESTIONS (continued)**

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	Action Number: 376563
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> 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	R360 Hobbs
(Ex Situ) Excavation and <b>on-site</b> 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>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/22/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 376563

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 376563
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 376563

**QUESTIONS (continued)**

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	Action Number:	376563
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	369322
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/06/2024
What was the (estimated) number of samples that were to be gathered	32
What was the sampling surface area in square feet	5004

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6200
What was the total volume (cubic yards) remediated	803
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	6200
What was the total volume (in cubic yards) reclaimed	803
Summarize any additional remediation activities not included by answers (above)	N/A

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/22/2024
--	--



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QUESTIONS, Page 7  
  
Action 376563

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 376563
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS  
  
Action 376563

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation closure report approved, release resolved.	10/8/2024